

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

Cephalometric Evaluation Of Vertical Dimension Changes Due to Lower Second Premolar Extraction in Adult Long Face Patients

Protocol summary

Summary

open bite is a kind of malocclusion which is treated very difficult and may cause esthetic, swallowing and speech problems. The aim of this study is to treat patients with this malocclusion without surgery by premolar extraction. 17 adult long face patients with mild to moderate overbite (0 to -5 mm) and CI I or CI II malocclusion were selected for this study. Those patients who had previous Orthodontic treatment or had non-nutritive oral habits or more than 6 mm crowding were excluded from study. Patients will be treated by extraction of lower second premolars and orthodontics treatment. After the treatment, pretreatment and post-treatment cephalometries will be analyzed and then Sum of Posterior angle, SNB, SN-MeGo angles will be checked for bite closure evaluation.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016020926470N1**

Registration date: **2016-06-05, 1395/03/16**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-06-05, 1395/03/16

Registrant information

Name

Shiva Shekarian

Name of organization / entity

Dental school, Shahid Beheshti University of Medical Science

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Recruitment status

Recruitment complete

Funding source

Shahid Beheshti University of Medical Science, Dental School

Expected recruitment start date

2013-03-21, 1392/01/01

Expected recruitment end date

2016-12-20, 1395/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Cephalometric Evaluation Of Vertical Dimension Changes Due to Lower Second Premolar Extraction in Adult Long Face Patients

Public title

Cephalometric Evaluation of Long Face Patients Due to Premolar Extraction

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria : Long Face Patient (Sum Of Bjork 394 to 400) : Patients with SNA angle between 81 to 84 , SNB angle between 75 to 79 and ANB angle between 2 to 6 degrees! Patients with CI I or CI II skeletal relationship : Patients with normal or increased overjet (0 to +5 mm) and decreased overbite (0 to -5 mm)! patients with witt's value between -1 to +4 mm! patients with no special habits. Exclusion criteria: Patients with previous orthodontic treatments! previous non-nutritive habits!

patients with obvious changes in their appearance expectation; Patient with severe gumminess more than 5 mm; Patients with neuromuscular disorders; Patients with extracted molars; Patients with severe crowding more than 6 mm in each jaw; Patients with decreased or increased incisal angle more than 5 degrees in upper and lower jaw.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 17

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

Ethics committee of Dental School ;Shahid Beheshti University of Medical Science

Street address

Dental School, Shahid Beheshti University of Medical Science, Daneshjoo Blvd, Daneshjoo Square, Evin, Tehran

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Approval date

2016-02-10, 1394/11/21

Ethics committee reference number

IR.SBMU.RIDS.REC.1394.99

Health conditions studied

1

Description of health condition studied

Adult Long Face Orthodontic Patient

ICD-10 code

K07.2

ICD-10 code description

Anomalies of dental arch relationship

Primary outcomes

1

Description

Sum of Posterior angle,SNA,SNB,ANB,Jaraback index

Timepoint

after treatment and 6 month post-treatment

Method of measurement

Cephalometric analysis by Dolphin software

Secondary outcomes

1

Description

bite closure

Timepoint

after treatment, 6 month post-treatment

Method of measurement

Cephalometric analysis by Dolphin software

Intervention groups

1

Description

Orthodontic Treatment

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Behfar Dentistry Clinic

Full name of responsible person

Street address

Damavand street;Tehran

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor of Research,Shahid Beheshti University of Medical Science,Dental School

Full name of responsible person

Hadis Karimi

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Shahid Beheshti University of Medical Science, Daneshjoo Blvd, Daneshjoo Square, Evin, Tehran,Iran

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice Chancellor of Research, Shahid Beheshti University of Medical Science, Dental School

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

Shahid Beheshti University of Medical Science, Dental School

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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