

Clinical Trial Protocol

Iranian Registry of Clinical Trials

31 May 2026

Assessment of the Effect of the Tongue in Groove Technique in Nasolabial Angle and Nasal Tip Projection Changes

Protocol summary

Study aim

Assessment of the Effect of the Tongue in Groove Technique in Nasolabial Angle and Nasal Tip Projection Changes

Design

Clinical trial with before and after comparison

Settings and conduct

Patients which refer to oral and Maxillofacial department of Buali hospital and private office. The study is a randomized clinical trial before and after assessments and follow up for 6 months.

Participants/Inclusion and exclusion criteria

Exclusion criteria consist of the history of previous septo rhinoplastic surgery; trauma to the nose; normal range of nasolabial angle (90-110) and normal tip projection according to good method assessment (55-60 %). Also any jaws deformity requiring orthognathic surgery and any craniomaxillofacial syndrome causing nose deformation, was excluded. Inclusion criteria consist of an abnormal range of naso labial angle and nasal tip projection which should be out of the normal range of 90-110 degree and 55-60%, a patient with a clear history of cranio facial syndrome; trauma to the nose, rhinoplastic surgery; jaw deformities and also a surgery done just based on TIG technique without any other methods contribution which affecting on tip and radix area.

Intervention groups

Tongue in groove surgical technique by definition involves a method by which the medial crura is pulled posteriorly over the caudal part of the nasal septum, in fact this is a type of intervention on the treated specimens. Some angles, such as nasolabial angle or nasal projection, are within the normal range, by using this method. This technique also has effects such as correction of septal deviation or columellar overexpression, which were not examined in this study. Non-use of cartilage, this technique is more and more popular today.

Main outcome variables

Nasolabial Angle; Nasal Tip Projection

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180102038189N1**

Registration date: **2019-12-31, 1398/10/10**

Registration timing: **retrospective**

Last update: **2019-12-31, 1398/10/10**

Update count: **0**

Registration date

2019-12-31, 1398/10/10

Registrant information

Name

Fatemeh Khabir

Name of organization / entity

Dental branch of azad university

Country

Iran (Islamic Republic of)

Phone

+98 21 2256 4570

Email address

khabirf@ymail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-01-31, 1396/11/11

Expected recruitment end date

2019-06-22, 1398/04/01

Actual recruitment start date

2018-03-01, 1396/12/10

Actual recruitment end date

2019-05-23, 1398/03/02
Trial completion date
 2019-11-07, 1398/08/16

Scientific title
 Assessment of the Effect of the Tongue in Groove Technique in Nasolabial Angle and Nasal Tip Projection Changes

Public title
 The Effect of the Tongue in Groove Technique in Nasal Tip Changes

Purpose
 Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
 The limit of the Nasolabial Angle should not be in normal range of 90-110 degree The limit of the Nasal Tip Projection should not be in normal range of 55-60 percentages The patient should not have a past rhinoplasty surgery The patient should not have a Craniomaxillofacial syndrome The patient should not have a Maxillofacial skeletal deformity The patient should not have a history of trauma to the nose The surgery should be done based on TIG technique and other methods effecting on nasal tip and nasal radix should not be done
Exclusion criteria:
 The limit of the Nasolabial Angle is in the normal range of 90-110 degree The limit of the Nasal Tip Projection is in the normal range of 55-60 percentages The patient had a past rhinoplasty surgery The patient has a Craniomaxillofacial syndrome The patient has a Maxillofacial skeletal deformity The patient has a history of trauma to the nose The surgery should be done in associated with other methods effecting on nasal tip and nasal radix

Age
 From **18 years** old to **55 years** old

Gender
 Both

Phase
 N/A

Groups that have been masked
No information

Sample size
 Target sample size: **20**
 Actual sample size reached: **20**

Randomization (investigator's opinion)
 Not randomized

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

Islamic Azad University, Dental branch

Street address

Pasdaran Ave., 9th Neiestan

City

Tehran

Province

Tehran

Postal code

1946853314

Approval date

2018-05-27, 1397/03/06

Ethics committee reference number

IR.IAU.DENTAL.REC.1397.022

Health conditions studied

1

Description of health condition studied

Changes in Nasolabial Angle and Nasal Tip Projection

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The measure of Nasolabial Angle

Timepoint

Pre operative measuring,immediate post operative measuring,6 months after the surgery

Method of measurement

Measuring by Using Standard Photography with Golden Ratio Software

2

Description

The Measure of Nasal Tip Projection

Timepoint

Pre operative measuring,immediate post operative measuring,6 months after the surgery

Method of measurement

Measuring by Using Standard Photography with Goode technique

Secondary outcomes

empty

Intervention groups

1

Description

Tongue in groove surgical technique by definition involves a method by which the medial crura is pulled posteriorly over the caudal part of the nasal septum, in fact this is a type of intervention on the treated specimens. Some angles, such as nasolabial angle or nasal projection, are within the normal range, by using this method. This technique also has effects such as correction of septal deviation or columellar overexpression, which were not examined in this study. Non-use of cartilage, this technique is more and more popular today. The study is a comparative study; before and after using the technique. The groups undergoing surgical intervention using the above technique will be measured after angular and projection correction. It is technically sensitive and has very stable results, technically most surgeons refuse to do it and prefer simple techniques with poor results, but in aesthetic practice long-term survival is the principle.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Buali Hospital, Oral and Maxillofacial Surgery Branch

Full name of responsible person

Mehdi Sezavar

Street address

Damavand Ave.

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University

Full name of responsible person

Arash Azizi

Street address

9th Neiestan, Pasdaran Ave.

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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

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

Fatemeh Khabir

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Dentistry

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Islamic Azad University

Full name of responsible person

Fatemeh Khabir

Position

Resident

Latest degree
Medical doctor
Other areas of specialty/work
Dentistry
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Person responsible for updating data

Contact

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Full name of responsible person
Fatemeh Khabir
Position
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Latest degree
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

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

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

Not applicable

Data Dictionary

Not applicable