

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jun 2026

### Assessment of low level laser irradiation at the end of surgery for pain reduction in adult tonsillectomy

#### Protocol summary

##### Summary

The purpose of this double blind RCT with placebo was to assess the effect of laser therapy for post tonsillectomy pain. A total of sixty patients were included in two groups. Immediately after tonsillectomy in the first group; both tonsillar beds was irradiated by 980 nm infrared laser, 100Hz, 4 Joules for each tonsil, but in the second group; they received 0 Joule with switch off laser. Operation was performed by a single surgeon and anesthetist blinded for the study intervention. Type of anesthesia is the same in two groups. In the recovery, we recorded pain intensity by VAS (from 0 to 10) and odynophgia by 4 scores from [0 (NO pain) till to 4 (Severe pain)] and amount of analgesics used in both groups. Then, during 2 - 4 - 6 - 8 - 12 - 24 hours post-operative periods (at Ward), all above mentioned variables were measured again.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201107181772N7**

Registration date: **2011-12-10, 1390/09/19**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2011-12-10, 1390/09/19

##### Registrant information

###### Name

Dawood Aghamohammadi

###### Name of organization / entity

Tabriz University of Medical Sciences

###### Country

Iran (Islamic Republic of)

##### Phone

+98 41 1381 8940

##### Email address

aghamohammadid@tbzmed.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor of research, Tabriz University of Medical Sciences

##### Expected recruitment start date

2010-08-23, 1389/06/01

##### Expected recruitment end date

2011-08-23, 1390/06/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Assessment of low level laser irradiation at the end of surgery for pain reduction in adult tonsillectomy

##### Public title

Effect of laser therapy for post tonsillectomy pain

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: ASA 1-2, age 14-40 Exclusion criteria: Drug addiction, Bleeding, Psychological disorder, traumatization, operation time more than 1 hour

##### Age

From **14 years** old to **40 years** old

##### Gender

Both

##### Phase

N/A

##### Groups that have been masked

No information

### Sample size

Target sample size: 60

### Randomization (investigator's opinion)

Randomized

### Randomization description

### Blinding (investigator's opinion)

Double blinded

### Blinding description

### Placebo

Used

### Assignment

Single

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Vice chanceller of research, Tabriz Unoversity of  
Medical Sciences

##### Street address

Daneshghah street - Fuculty of medicine -  
Anesthsiology resaech team

##### City

Tabriz

##### Postal code

#### Approval date

2011-04-05, 1390/01/16

#### Ethics committee reference number

5/4/259

## Health conditions studied

### 1

#### Description of health condition studied

Tonsillectomy

#### ICD-10 code

J35-J36

#### ICD-10 code description

Chronic diseases of tonsils and adenoids

## Primary outcomes

### 1

#### Description

pain

#### Timepoint

0 - 2 -4 - 6 - 8 - 12 -24 hours in post operative periods

#### Method of measurement

visual Analouque scale

### 2

#### Description

Odynophagia

#### Timepoint

0 - 2 -4 - 6 - 8 - 12 -24 hours in post operative periods

#### Method of measurement

visual Analouque Scale

## Secondary outcomes

### 1

#### Description

analgesic consumption

#### Timepoint

0-2 -4 -6 - 8- 12 -24 hours in post operative periods

#### Method of measurement

milligram

## Intervention groups

### 1

#### Description

Low level Laser Therapy on bed of tonsills

#### Category

Treatment - Other

### 2

#### Description

Low Level laser Therapy with switch off laser(Placebo)

#### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Imam Reza Teaching Hospital

##### Full name of responsible person

Dawood Aghamohammadi

##### Street address

##### City

Tabriz

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Tabriz University of Medical Science - Faculty of  
medicine -Anesthsiology resaech team

##### Full name of responsible person

Dawood Aghamohammadi

##### Street address

Daneshghah street-Fuculty of medicine -  
Anesthsiology resaech team

**City**  
Tabriz

**Grant name**

**Grant code / Reference number**

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

**Title of funding source**  
Tabriz University of Medical Science - Faculty of medicine  
-Anesthesiology research team

**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**  
Tabriz University of medical science

**Full name of responsible person**  
Dawood Aghamohammadi

**Position**  
Assistant Professor

**Other areas of specialty/work**

**Street address**  
Daneshgah street -Faculty of medicine -  
Anesthesiology research team

**City**  
Tabriz

**Postal code**

**Phone**  
+98 41 1334 1994

**Fax**

**Email**  
aghamohammadid@tbzmed.ac.ir  
daghamohamadi@yahoo.com

**Web page address**

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**  
Tabriz university of medical science

**Full name of responsible person**  
Dawood Aghamohammadi

**Position**

Assistant Professor

**Other areas of specialty/work**

**Street address**  
Daneshgah street -Faculty of medicine -  
Anesthesiology

**City**  
Tabriz

**Postal code**

**Phone**  
+98 41 1334 1994

**Fax**

**Email**  
aghamohammadid@tbzmed.ac.ir  
daghamohamadi@yahoo.com

**Web page address**

## Person responsible for updating data

### Contact

**Name of organization / entity**  
Tabriz University of Medical Science

**Full name of responsible person**  
Dawood Aghamohammadi

**Position**  
Assistant Professor

**Other areas of specialty/work**

**Street address**  
Daneshgah street -Faculty of medicine -  
Anesthesiology

**City**  
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**Postal code**

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+98 41 1334 1994

**Fax**

**Email**  
aghamohammadid@tbzmed.ac.ir  
daghamohamadi@yahoo.com

**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*