

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

17 Sep 2026

### Comparison of the anesthetic efficacy of the gow-gates and inferior alveolar nerve block techniques in patients with impacted third molar.

#### Protocol summary

##### Summary

Objectives: Comparison of two anesthetic techniques.  
Design: Randomized, single blind, with out placebo, one center, phase 2-3 trial. Participants including major eligibility criteria: major inclusion criteria: The patients with impacted third molar; Patients that have no contraindications for oral surgery. major exclusion criteria: The information given by the patient is not reliable. Target sample size: 44. Setting and conduct: 22 patients received inferior alveolar nerve block for anesthesia and in 22 other patients gow-gate technique has been used. after surgery questionnaires measuring to pain completed based on VAS by patients. Time of intervention: after surgery. primary outcome measures: pain. secondary outcome measures: additional injection.

##### Email address

i.talimkhani@umsha.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Investigator

##### Expected recruitment start date

2012-07-22, 1391/05/01

##### Expected recruitment end date

2012-10-22, 1391/08/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201307309515N3**

Registration date: **2013-09-15, 1392/06/24**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2013-09-15, 1392/06/24

##### Registrant information

###### Name

Ideh Talimkhani

###### Name of organization / entity

Hamadan faculty of dentistry

###### Country

Iran (Islamic Republic of)

###### Phone

+98 81 1824 2144

##### Scientific title

Comparison of the anesthetic efficacy of the gow-gates and inferior alveolar nerve block techniques in patients with impacted third molar.

##### Public title

Comparison of the anesthetic efficacy of the gow-gates and inferior alveolar nerve block techniques.

##### Purpose

Prevention

##### Inclusion/Exclusion criteria

Major inclusion criteria: The patients with impacted third molar; Patients that have no contraindications for oral surgery. Major exclusion criteria: The information given by the patient is not reliable.

##### Age

No age limit

##### Gender

Both

##### Phase

2-3

##### Groups that have been masked

No information

## Sample size

Target sample size: 44

## Randomization (investigator's opinion)

Randomized

## Randomization description

## Blinding (investigator's opinion)

Single blinded

## Blinding description

## Placebo

Not used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

##### Street address

Hamadan University of Medical Sciences, Shahid Fahmideh St

##### City

Hamadan

##### Postal code

#### Approval date

2012-06-16, 1391/03/27

#### Ethics committee reference number

16/35/1011/د/پ

## Health conditions studied

### 1

#### Description of health condition studied

Impacted tooth

#### ICD-10 code

k01.1

#### ICD-10 code description

An impacted tooth is a tooth that has failed to erupt because of obstruction by another tooth.

## Primary outcomes

### 1

#### Description

Pain

#### Timepoint

after intervention

#### Method of measurement

Visual Analogue Scale

## Secondary outcomes

### 1

#### Description

Additional injection

#### Timepoint

After intervention

#### Method of measurement

Number

## Intervention groups

### 1

#### Description

Control group: Gow-Gate injection

#### Category

N/A

### 2

#### Description

Inferior alveolar nerve block injection

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Hamadan faculty of dentistry

##### Full name of responsible person

Ideh Talimkhani

##### Street address

Department of oral and maxillofacial surgery, Faculty of dentistry, Hamadan University of Medical Sciences, Shahid Fahmideh St

##### City

Hamadan

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice chancellor for research, Hamadan University of Medical Sciences

##### Full name of responsible person

Heidar Tavalani

##### Street address

Vice chancellor for research, Hamadan University of Medical Sciences, Shahid Fahmideh St

##### City

Hamadan

#### Grant name

#### Grant code / Reference number

#### Is the source of funding the same sponsor

**organization/entity?**

Yes

**Title of funding source**

Vice chancellor for research, Hamadan University of Medical Sciences

**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**

Hamadan faculty of dentistry

**Full name of responsible person**

Ideh Talimkhani

**Position**

General dentist

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

No381, block C4, Saidiyeh St

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**Postal code****Phone**

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**Fax****Email**

ideatalimkhani@umsha.ac.ir

**Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Hamadan faculty of dentistry

**Full name of responsible person**

Mohammad Reza Jamalpour

**Position**

oral and maxillofacial surgeon

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

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jamalpour@umsha.ac.ir

**Web page address****Person responsible for updating data****Contact****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