

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

01 Jul 2026

### Ligasure Small Jaw instrument effect on treatment services improvement in thyroidectomy patients in comparison to clamp and tie method: A clinical trial

#### Protocol summary

##### Summary

In current study, we aim to discuss effect of Ligasure Small Jaw Instrument on hypocalcemia prevalence decrease in thyroidectomy patients. One hundred and fifty patients with thyroidectomy indication, who will be admitted in surgery wards of Tabriz Taleghani and Emam Reza hospitals from March 2014 till March 2015, enroll our study. All patients take part in case or control group by their own willing, as they choose surgery method on their own, and some will receive Ligasure Small Jaw and others Clamp and tie method. ( P less than 0.05 is statistically significant) Sampling is non-randomized and census and patients candidate for thyroidectomy such as thyroidectomy cancers will enroll our study. All patients information about length of admission and admission fee will be recorded. Then data will be compared and analyzed.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2014052416077N3**

Registration date: **2014-05-30, 1393/03/09**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2014-05-30, 1393/03/09

##### Registrant information

##### Name

Ali Ramouz

##### Name of organization / entity

Tabriz University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 41 3441 3895

##### Email address

ali.ramouz@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

Student Research Committee, Tabriz University of Medical Sciences

##### Expected recruitment start date

2014-04-21, 1393/02/01

##### Expected recruitment end date

2015-04-21, 1394/02/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Ligasure Small Jaw instrument effect on treatment services improvement in thyroidectomy patients in comparison to clamp and tie method: A clinical trial

##### Public title

Treatment services improvement in thyroidectomy patients: Ligasure Small Jaw Instrument versus Clamp and tie method

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion Criteria: Multi Nodular Goiter; Thyroid cancers; Retrosternal goiter Exclusion Criteria: Bilateral recurrent laryngeal nerve paresia; Secondary thyroid surgery; History of previous head and neck surgery; Parathyroid co-morbidity

**Age**

No age limit

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

No information

**Sample size**

Target sample size: **100**

**Randomization (investigator's opinion)**

Not randomized

**Randomization description****Blinding (investigator's opinion)**

Not blinded

**Blinding description****Placebo**

Not used

**Assignment**

Parallel

**Other design features**

Because patients choose the surgery type by their own willing and economical situation, so both case and control groups are non randomized.

**Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics Committee of Research and Technology  
Department, Tabriz University of Medical Sciences

**Street address**

Research and technology department- Daneshgah  
Street- Tabriz

**City**

Tabriz

**Postal code****Approval date**

2014-03-10, 1392/12/19

**Ethics committee reference number**

92220

**Health conditions studied****1****Description of health condition studied**

Thyroid diseases

**ICD-10 code**

E07

**ICD-10 code description**

Other disorders of thyroid

**Primary outcomes****1****Description**

Investigating hospital admission length in patients undergo surgery with 2 methods

**Timepoint**

After patients discharge

**Method of measurement**

Patient's ward document

**Secondary outcomes****1****Description**

Investigating hospital admission fee in patients undergo thyroidectomy surgery with 2 methods

**Timepoint**

After patients discharge

**Method of measurement**

Patients ward document

**Intervention groups****1****Description**

Thyroidectomy by Ligasure small jaw instrument: Ligasure Small Jaw Instrument helps to coagulate and cut the thyroid nutrient vessels without any knot and suture, and facilitates thyroid resection procedure.

**Category**

Treatment - Surgery

**2****Description**

Thyroidectomy by Clamp and Tie method: This method is also known as Conventional thyroidectomy, which perform by several knots on nutrient vessels of thyroid, for completing thyroid resection.

**Category**

Treatment - Surgery

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Tabriz Emam Reza Hospital and Tabriz Shahid Taleghani Hospital

**Full name of responsible person****Street address**

Emam Reza hospital, Daneshgah Street, Tabriz, Iran

**City**

Tabriz

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Student research committee, Tabriz University of Medical Sciences

**Full name of responsible person**

Hossein Mazouchian

**Street address**

Student Research Committee of Tabriz University of Medical Sciences, Pashmine Complex, Daneshgah Street, Tabriz, Iran

**City**

Tabriz

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Student research committee, Tabriz 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**

Tabriz University of Medical Sciences

**Full name of responsible person**

Ali Ramouz

**Position**

Medical student

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

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**Web page address**

## Person responsible for scientific inquiries

**Contact****Name of organization / entity**

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**Full name of responsible person**

Dr. Seyed Ziaeddin Rasi Hashemi

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## Person responsible for updating data

**Contact****Name of organization / entity**

Student Research Committee, Tabriz University of Medical Sciences

**Full name of responsible person**

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**Position**

Student

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

Student Research Committee, Pashmine Complex, Daneshgah Street, Tabriz, Iran

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**Postal code****Phone**

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**Fax****Email****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*