

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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Position

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Contact**Name of organization / entity**

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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