

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jul 2026

Comparing post-operative complication of Ligasure Small Jaw Instrument with clamp and tie method in thyroidectomy patients : 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 will be visited one day, one week and 6 week after operation, in order to evaluating their complications after surgery such as: vocal cord paresis, hematoma, hemorrhage, wound infection, and chronic pain. This examinations will be done by a surgeon, and data will be recorded carefully.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014030316077N2**

Registration date: **2014-05-29, 1393/03/08**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-05-29, 1393/03/08

Registrant information

Name

Ali Ramouz

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Email address

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Recruitment status

Recruitment complete

Funding source

Students Research Committee, Tabriz University of Medical Sciences

Expected recruitment start date

2014-04-04, 1393/01/15

Expected recruitment end date

2015-04-04, 1394/01/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing post-operative complication of Ligasure Small Jaw Instrument with clamp and tie method in thyroidectomy patients : A Clinical Trial

Public title

Ligasure Small Jaw Instrument effect on decreasing post-operative complications in thyroidectomy patients in comparison to Clamp and Tie method

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Multinodular Goiter; Thyroid cancers;

Retrosternal Goiter Exclusion criteria: Vocal cord

paralysis; Secondary thyroid surgery; History of head and

neck surgeries; Concurrent parathyroid diseases

Age

No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **200**

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 their surgery method by their own willing and due to their financial statement, so the study is non-randomized and non-blinded.

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

2014-02-26, 1392/12/07

Ethics committee reference number

92207

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 recurrent laryngeal nerve paralysis
incidence in patients undergo surgery with 2 methods

Timepoint

Before Surgery- During post-operative extubation- 1 day
after surgery- 6 week after surgery

Method of measurement

Checking vocal cords, Patient voice tone

Secondary outcomes

1

Description

Evaluating neck hematoma prevalence in patients
undergo surgery by both surgery methods

Timepoint

1 days after surgery- 1 week after surgery- 6 week after
surgery

Method of measurement

Surgery area examination, Conterol neck CT scan

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

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Person responsible for scientific inquiries

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Person responsible for updating data

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Student Research Committee, Tabriz University of Medical Sciences

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Position

Student

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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