

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

18 Sep 2026

### Intercostals muscle flap and intracostal sutures versus intracostal sutures alone for decreasing post thoracotomy pain.

#### Protocol summary

##### Summary

From April 2012 to April 2013, forty patients who will be admitted for thoracotomy are eligible for this prospective randomized clinical trial. Post thoracotomy pain is evaluated by two different surgical methods. All patients are randomly assigned to one of two groups. The first group, 20 patients will receive protection of the superior intercostal nerve by rising the intercostal muscle flap and intracostal sutures will be placed through drilled holes on the rib over the inferior intercostal nerve. The second group we only use intracostal sutures for closure of thoracotomy incision. Each patient over 19 years old will be included for this study. Chronic pain, failure in surgical technique will result in exclusion from the study. The mean duration of hospital stay is seven days and follow-up will be achieved for all patients. The most common outcome is painless condition after surgery.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201206059948N1**

Registration date: **2012-08-30, 1391/06/09**

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

Last update:

Update count: **0**

##### Registration date

2012-08-30, 1391/06/09

##### Registrant information

###### Name

Majid Montazer

###### Name of organization / entity

Tabriz University of Medical sciences

###### Country

Iran (Islamic Republic of)

##### Phone

+98 41 3337 8435

##### Email address

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##### Recruitment status

**Recruitment complete**

##### Funding source

Tabriz University of Medical Sciences

##### Expected recruitment start date

2012-03-20, 1391/01/01

##### Expected recruitment end date

2013-03-21, 1392/01/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Intercostals muscle flap and intracostal sutures versus intracostal sutures alone for decreasing post thoracotomy pain.

##### Public title

Closer sutures for decreasing post thoracotomy pain by two different surgical technique.

##### Purpose

Prevention

##### Inclusion/Exclusion criteria

Inclusion criteria: patints with pulmonary and non pulmunary pathology who under gone posterolateral thoractomy exclusion criteria: Below 19 years old; Chronic pain history; Adiction; Psychologic disorders; Invasion to ribs and parietal pleura; Under steroid treatment<6 mounth; Neoadjuvant therapy pre operation; Brain contusion or under mechanical ventilator; Epidoral catheter unuse; Discharge by chest tube

##### Age

From **19 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

No information

**Sample size**

Target sample size: **40**

**Randomization (investigator's opinion)**

Not 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**

Tabriz University of medical Science university

**Street address**

Research centre, Medical college, golgasht ave.,  
Tabriz

**City**

Tabriz

**Postal code**

51666-14766

**Approval date**

2012-05-14, 1391/02/25

**Ethics committee reference number**

9141

**Health conditions studied**

**1**

**Description of health condition studied**

Injury of other nerves of thorax

**ICD-10 code**

S24.5

**ICD-10 code description**

Injury of other nerves of thorax

**Primary outcomes**

**1**

**Description**

Pain

**Timepoint**

The day of surgery.2th weeks post surgery.

1th,2th,4th,6th month post surgery

**Method of measurement**

1. visual pain scale 2.numeric rating score

**Secondary outcomes**

**1**

**Description**

Air leak, hemorrhage, pneumonia, emboli & DVT,  
empyema, wound infection, atelectasia

**Timepoint**

admission day, 1th, 2th, 4th days

**Method of measurement**

CXR

**Intervention groups**

**1**

**Description**

In first group intercostal muscle with neurovascular  
bundle separated from upper rib by cutter or scalpel in  
opening time and salvage them from damage by rib  
retractor and lower rib by drilling in closing.

**Category**

Prevention

**2**

**Description**

In second group neurovascular bundle salvage just in  
closing time by lower rib drilling .

**Category**

Prevention

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Imam Reza Hospital

**Full name of responsible person**

Shahriar Hashemzadeh M.D

**Street address**

Thorax ward, Imam Reza Hospital, Tabriz

**City**

Tabriz

**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Tabriz University of Medical Sciences

**Full name of responsible person**

Sokouti Mohsen MD

**Street address**  
Thorax ward, Imam Reza Hospital, Tabriz

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**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 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 Science

**Full name of responsible person**  
Majid Montazer Bavi Oliaii M.D

**Position**  
Resident of thorax surgery

**Other areas of specialty/work**

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## Person responsible for scientific inquiries

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General Toracic Subspeciality

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## Person responsible for updating data

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## 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*