

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jun 2026

Comparison of penetrating chest wound treatment with and without tube thoracostomy

Protocol summary

Summary

1- Objectives: The goal of this trial is to evaluate the efficiency of penetrating wound treatment without tube thoracostomy. 2- Design: The sampling begins in the emergency department. After qualifying the inclusion criteria and obtaining the informed consent, the patients enter the trial process. 3- Setting and conduct: Patients with penetrating thoracic trauma who are hemodynamically stable, undergo wound exploration. If the wound has relation to the pleuretic space, a suction tube is inserted into the thoracic cavity and the containing is suctioned in both seated and supine positions and then the suction tube is taken out with supporting Vaseline dressing like when a chest tube is taken out and the wound is dressed so that no air could get back into the thoracic cavity. In order to confirm that no pneumothorax is left, a CXR is taken. Chest auscultation is done by the physician every hour after admission and chest tube is inserted if any sound decrease or pneumothorax occurs. Otherwise if no sound decrease and/or pneumothorax is found, the patient is admitted and discharged after 48 hour if no problem has been occurred. 4- Participants including major eligibility criteria: Participants are selected among the patients admitted in the emergency department of Tabriz Emam Reza hospital. Inclusion criteria: Isolated thoracic injury in a hemodynamically stable patient. Exclusion criteria: Hemodynamic instability; concurrent thoracic and abdominal trauma; multiple penetrating thoracic injuries; emergent thoracotomy indication. 5- Intervention: Insertion of a suction tube through the penetrating wound and suctioning the pleural space 6- Variables: The studied variable is creation or remaining of pneumothorax or hemothorax which is confirmed by examination or chest X-ray.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012111911534N1**

Registration date: **2013-03-12, 1391/12/22**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-03-12, 1391/12/22

Registrant information

Name

Keivan Kashy Zonouzy

Name of organization / entity

Tabriz university of medical sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1336 6950

Email address

keivan293@irimc.org

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research of Tabriz university of medical sciences

Expected recruitment start date

2012-05-21, 1391/03/01

Expected recruitment end date

2013-03-19, 1391/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of penetrating chest wound treatment with

and without tube thoracostomy

Public title

Penetrating chest wound management without tube thoracostomy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Isolated thoracic injury in a hemodynamically stable patient. Exclusion criteria: Hemodynamic instability; concurrent thoracic and abdominal trauma; Multiple penetrating thoracic injuries; Emergent thoracotomy indication.

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 50

Randomization (investigator's opinion)

N/A

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

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

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

Ethics committee of Tabriz university of medical sciences

Street address

Tabriz university of medical sciences, Daneshgah Avenue

City

Tabriz

Postal code**Approval date**

2012-05-21, 1391/03/01

Ethics committee reference number

91144

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

Thoracic penetrating trauma

ICD-10 code

S21.9

ICD-10 code description

Open wound of thorax, part unspecified

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

Pneumothorax

Timepoint

On emergency department arrival and then every hour

Method of measurement

Chest auscultation by physician and confirmation by anterolateral chest X-ray graphy

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

Hemothorax

Timepoint

On admission in surgery ward and then every hour

Method of measurement

Chest auscultation by physician and confirmation by anterolateral chest X-ray graphy

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

Suction tube insertion within the site of thoracic penetrating trauma wound and suction of the pleura containing

Category

Treatment - Surgery

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

Emam Reza hospital of Tabriz

Full name of responsible person

Dr Keivan Kashy Zonouzy

Street address

Emam Reza educational and therapeutic center, Daneshgah avenue

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Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research of Tabriz university of medical sciences

Full name of responsible person

Dr Shahriar Hashemzadeh

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Emam Reza hospital, Daneshgah avenue

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Tabriz

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 of 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

Dr Shahriar Hashemzadeh

Position

Thoracic surgeon, Associate professor of Tabriz university of medical sciences

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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