Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 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
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Iran (Islamic Republic of)
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+98 41 1336 6950
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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
City
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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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

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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