Clinical Trial Protocol
Iranian Registry of Clinical Trials

30 Jun 2026

Comparison of results in outcome of routine and selective thoracic CT scan in conscious patients with moderate to severe blunt chest trauma

Protocol summary

Study aim
evaluation of the benefit of routine and selective chest CT scan in blunt chest trauma

Design
the clinical trial is performed on trauma patients, who are allocated to two parallel groups of selective and Routine. simple randomization is done based on a table of random numbers.

Settings and conduct
all the patients at the admission undergo basic imaging techniques including chest X-ray and eFast sonography. Patients in the Routine group undergoes the routine chest CT scan without contrast regardless of initial findings. patients in the selective group undergo a chest CT scan without contrast based on the positive findings in initial imaging and evaluation.

Participants/Inclusion and exclusion criteria
Inclusion criteria: trauma patients who are transferred to Besat Hospital-Tehran exclusion criteria: penetrating trauma, minor severity trauma, isolated limb trauma

Intervention groups
routine chest CT scan group

Main outcome variables
emergency department stay time, hospital stay time, ICU stay time, final outcome indicated therapeutic interventions.

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20200505047307N2**
Registration date: **2020-10-18, 1399/07/27**
Registration timing: **retrospective**

Last update: **2020-10-18, 1399/07/27**
Update count: **0**

Registration date
2020-10-18, 1399/07/27

Registrant information
Name
Alireza Mirsharifi
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Iran (Islamic Republic of)
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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2019-08-23, 1398/06/01

Expected recruitment end date
2020-08-22, 1399/06/01

Actual recruitment start date
2019-09-06, 1398/06/15

Actual recruitment end date
2020-08-21, 1399/05/31

Trial completion date
2020-08-21, 1399/05/31

Scientific title
Comparison of results in outcome of routine and selective thoracic CT scan in conscious patients with moderate to severe blunt chest trauma

Public title
comparison of results in outcome ofroutine and selective chest CT scan in trauma patients

Purpose
Diagnostic

Inclusion/Exclusion criteria
Inclusion criteria:
trauma patients who were transfered to Besat Hospital-

Tehran

Exclusion criteria:

patients with undetectable vital signs, initially at the addmission

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **37**

Actual sample size reached: **35**

Randomization (investigator's opinion)

Randomized

Randomization description

simple randomization was performed based on the table of random numbers. a specific point was chosen and numbers allocated to cases respectively from the top to the bottom of the table. patients with even numbers allocated to the Routine-CT scan group and patients with odd numbers allocated to the Selective-CT scan group.

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

AJA university of Medical Sciences

Street address

Etemadzade st, Fatemi st.

City

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Province

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Postal code

1411718541

Approval date

2019-09-15, 1398/06/24

Ethics committee reference number

IR.AJAUMS.REC.1398.146

Health conditions studied

1

Description of health condition studied

trauma

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

hospital stay time

Timepoint

based on the patient`s discharge time

Method of measurement

based on the patient`s records

2

Description

therapeutic intervention

Timepoint

based on the course of treatment

Method of measurement

based on patient`s records

Secondary outcomes

1

Description

hospital stay time

Timepoint

based on the patient`s records

Method of measurement

based on the patient`s records

Intervention groups

1

Description

Intervention group: routine chest ct scan without contrast

Category

Early detection

Recruitment centers

1

Recruitment center

Name of recruitment center

Besat Hospital

Full name of responsible person

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Sponsors / Funding sources

1

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Name of organization / entity
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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
Artesh University of Medical Sciences
Proportion provided by this source
50
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact
Name of organization / entity
Artesh University of Medical Sciences
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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available
Study Protocol
Undecided - It is not yet known if there will be a plan to make this available
Statistical Analysis Plan
Undecided - It is not yet known if there will be a plan to make this available
Informed Consent Form
Undecided - It is not yet known if there will be a plan to make this available
Clinical Study Report
Yes - There is a plan to make this available
Analytic Code
Not applicable
Data Dictionary
Not applicable
Title and more details about the data/document
all data is publishable after deidentification
When the data will become available and for how long
unlimited availability
To whom data/document is available
eligible ones based on the publisher`s rules
Under which criteria data/document could be used
for scientific purposes with appropriate citation
From where data/document is obtainable
to the publisher/ corresponding author`s email address
What processes are involved for a request to access data/document
upon the request through the academic email addresses, data will be available
Comments