Clinical Trial Protocol
Iranian Registry of Clinical Trials

13 Nov 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
Name of organization / entity
Country
Iran (Islamic Republic of)
Phone
+98 21 8490 2450
Email address
alidiza@gmail.com

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

Tehran

Province

Tehran

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

Alireza Mirsharifi

Street address

Takhti st. Basij hwy.

City

tehran

Province

Tehran
Postal code
11151 17819
Phone
+98 21 3995 5555
Email
shishegarmd@yahoo.com

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Artesh University of Medical Sciences
Full name of responsible person
alireza mirsharifi
Street address
etemad zadeh st., Fatemi st.
City
tehran
Province
Tehran
Postal code
1411718541
Phone
+98 21 8609 6350
Email
shishegarmd@yahoo.com
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
Full name of responsible person
Alireza Mirsharifi
Position
assistant professor
Latest degree
Specialist
Other areas of specialty/work
General Surgery
Street address
keshavarz blvd.
City
tehran
Province
Tehran
Postal code
1411713135
Phone
+98 21 8490 2450
Email
shariatihosp@tums.ac.ir

Person responsible for scientific inquiries

Contact
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Alireza Mirsharifi
Position
assistant professor
Latest degree
Specialist
Other areas of specialty/work
General Surgery
Street address
Shariati Hospital, Jalal Ale ahmad Highway
City
Tehran
Province
Tehran
Postal code
1411713135
Phone
+98 21 8490 1000
Email
alidiza@gmail.com

Person responsible for updating data

Contact
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Alireza Mirsharifi
Position
assistant professor
Latest degree
Specialist
Other areas of specialty/work
General Surgery
Street address
Shariati Hospital, Jalal Ale ahmad Highway
City
Tehran
Province
Tehran
Postal code
1411713135
Phone
+98 21 8490 1000

Email
alidiza@gmail.com

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