

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

The effect of radiography request by triage nurse in isolated limb injuries reducing the time to disposition of patient in the emergency department

Protocol summary

Study aim

The effect of radiography request by triage nurse in isolated limb injuries reducing the time to disposition of patient in the emergency department

Design

The design of the study is a randomized clinical trial. The randomization method is blocked. The sample size for each study group is 150.

Settings and conduct

In this research, all patients referred to the Emergency Department of Shohada-e- Haftome tir Hospital who suffered from isolated limb injuries will be enrolled. Patients will be randomly divided into two groups based on 10 blocks. A total of 300 patients will be examined. Data analyzers will be blind.

Participants/Inclusion and exclusion criteria

All patients referred to the Emergency Department of Shohada-e- Haftome tir Hospital who suffered from isolated limb injuries will be enrolled. Inclusion criteria: Patients with isolated upper or lower isolated trauma, Patients over the eighteen years old and under the eighty years old. Exclusion criteria: Signs of unstable life, Blow to the head, trunk, abdomen, chest and spine, Vascular or neurological damage.

Intervention groups

In the intervention group, after the patient returns to the triage and initial examination by the nurse, the radiography will be requested by the triage nurse. In the control group, after the patient returns to the triage and the initial examination by the nurse, the patient will be visited by the doctor and the doctor will be requested the radiography.

Main outcome variables

Limb injury location, Radiography Requester, The time of the radiography request by the triage nurse, The time of the radiography request by the doctor, Time to disposition of patient.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20151003024317N3**

Registration date: **2018-11-27, 1397/09/06**

Registration timing: **prospective**

Last update: **2018-11-27, 1397/09/06**

Update count: **0**

Registration date

2018-11-27, 1397/09/06

Registrant information

Name

Mahdi Rezai

Name of organization / entity

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-12-21, 1397/09/30

Expected recruitment end date

2019-03-21, 1398/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of radiography request by triage nurse in isolated limb injuries reducing the time to disposition of patient in the emergency department		City	Tehran
		Province	Tehran
Public title		Postal code	1449614535
The effect of radiography request by triage nurse		Approval date	2016-12-18, 1395/09/28
Purpose		Ethics committee reference number	IR.IUMS.REC.1396.29878
Other		Health conditions studied	
Inclusion/Exclusion criteria		<u>1</u>	
Inclusion criteria:		Description of health condition studied	
Patients with isolated upper or lower isolated trauma		Request the radiography by a triage nurse	
Patients over the eighteen years old and under the eighty years old		ICD-10 code	
Exclusion criteria:		ICD-10 code description	
Signs of unstable life Blow to the head, trunk, abdomen, chest and spine Vascular or neurological damage		Primary outcomes	
Age		<u>1</u>	
From 18 years old to 80 years old		Description	
Gender		Limb injury location	
Both		Timepoint	
Phase		Before and After radiography	
N/A		Method of measurement	
Groups that have been masked		According to radiology report	
Data analyser		<u>2</u>	
Sample size		Description	
Target sample size: 300		Radiography Requester	
Randomization (investigator's opinion)		Timepoint	
Randomized		At the moment of the request of the radiography	
Randomization description		Method of measurement	
Patients will be randomly assigned to two groups. In order to randomize, a random block method will be used. For this purpose, we formed blocks with 10 person. In each block, 5 individuals will be in intervention group and 5 will be in control group. A total of 15 blocks will be considered for sample size.		Based on the information in the patient file	
Blinding (investigator's opinion)		<u>3</u>	
Single blinded		Description	
Blinding description		The time of the radiography request by the triage nurse	
Data will analyze by person who is blind to study groups (single blind).		Timepoint	
Placebo		At the moment of the request of the radiography	
Not used		Method of measurement	
Assignment		Based on the information in the patient file	
Parallel		<u>4</u>	
Other design features		Description	
		The time of the radiography request by the doctor	
Secondary Ids		Timepoint	
empty		At the moment of the request of the radiography	
Ethics committees		Method of measurement	
		Based on the information in the patient file	
<u>1</u>		<u>5</u>	
Ethics committee		Description	
Name of ethics committee		Time to disposition of patient	
Ethics committee of Iran University of Medical Sciences			
Street address			
Iran University of Medical Sciences, Hemmat Highway, Tehran			

Timepoint

The time of transfer to the ordinary wards of hospital, being discharged or being observed in ED,

Method of measurement

Based on the information in the patient file

Secondary outcomes

empty

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

Intervention group: After the patient returns to the triage and initial examination by the nurse, the radiography will be requested by the triage nurse.

Category

Diagnosis

2**Description**

Control group: After the patient returns to the triage and the initial examination by the nurse, the patient will be visited by the doctor and the doctor will be requested the radiography.

Category

Diagnosis

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

Shohada-e- Haftome tir Hospital

Full name of responsible person

Saieed Abbasi

Street address

Emergency Department, Shohada-e- Haftome tir Hospital, Shahid rajaee Highway, Tehran, Iran

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web7tir@iums.ac.ir

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Kazem Malakooti

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7th Floor, Department of Internal Medicine, Rasoul-Akram Hospital, Niayesh St., Sattarkahn Ave

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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

Iran University of Medical Sciences

Proportion provided by this source

100

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**

Iran University of Medical Sciences

Full name of responsible person

Saieed Abbasi

Position

Assistant Professor of Emergency Medicine

Latest degree

Specialist

Other areas of specialty/work

Emergency Medicine

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be 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

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available

Person responsible for updating data

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Saieed Abbasi

Position

Assistant Professor of Emergency Medicine

Latest degree

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