Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Developing a Triage scale for heart failure patients with Dyspnea and assessing it`s effect on timing indicators and miss-triage among incoming patients to the Emergency Department of Hospital

Protocol summary

Summary

The aim of this study is to develop a triage scale for patients with heart failure who come to the emergency department with dyspnea. Patients with heart failure who suffer from dyspnea referred to the emergency department are randomly assigned to intervention and comparison groups. In the intervention group, the heart failure triage scale will be used, and in the comparison group, the emergency severity scale will be performed on patients, and the triage level will be obtained for each patient. The emergency severity index is the common method of triaging patients in the department. Inclusion Criteria: patient with Dyspnea, History of Ischemic heart disease or Hypertension, 18 years or older. Exclusion Criteria: Not being diagnosed heart failure, Transfer to other facility less than 6 hours. The outcomes include comparing the triage categories between the hospitalized patients (heart, CCU, and discharged) between the two intervention and comparison groups, and the time to physician`s visit (emergency and specialist) and the provision of care services (tests, graphs, medications, nursing measures) Will also be compared between the two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017050433807N1**
Registration date: **2017-07-26, 1396/05/04**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-07-26, 1396/05/04

Registrant information

Name

Ahmad Pouyamehr

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 518597313

Email address

pouyamehra931@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

The study was granted by Vice chancellor for research, Mashhad University of Medical Sciences (No. 950170).

Expected recruitment start date

2017-06-22, 1396/04/01

Expected recruitment end date

2017-12-22, 1396/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Developing a Triage scale for heart failure patients with Dyspnea and assessing it`s effect on timing indicators and miss-triage among incoming patients to the Emergency Department of Hospital

Public title

Triage scale for heart failure patients

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion Criteria: patient with Dyspnea, History of Ischemic heart disease or Hypertension, 18 years or older. Exclusion Criteria: Not being diagnosed heart failure, Transfer to other facility less than 6 hours

Age

From **18 years** old to **100 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Mashhad University of Medical Sciences

Street address

mashhad-Mashhad University of Medical Sciences

City

MASHHAD

Postal code

Approval date

2016-10-17, 1395/07/26

Ethics committee reference number

IR.MUMS.REC.1395.323

Health conditions studied

1

Description of health condition studied

Heart Failure

ICD-10 code

I50.0

ICD-10 code description

Complications and ill-defined descriptions of heart disease

Primary outcomes

1

Description

Under-triage

Timepoint

During the study

Method of measurement

Compare triage level in patients admitted to CCU

Secondary outcomes

1

Description

Timing indices

Timepoint

During the study

Method of measurement

Based on time to Physician`s visit and procedures

Intervention groups

1

Description

In control group, Emergency severity index for heart failure patients with dyspnea in control group will be performed. This scale divides patients into five levels of priority one to five. The patient in level 1 is at a very critical condition, and is stable at the level 5. Patients with heart failure who suffer from dyspnea referred to the emergency department are assigned to one of the two intervention or control groups based on throwing coins.

Category

Early detection

2

Description

In intervention group, Heart failure triage scale will be performed on patients with dyspnea. This scale divides patients into four levels of priority one to four. The patient in level 1 is at a very critical condition, and is stable at the level 4. Patients with heart failure who suffer from dyspnea referred to the emergency department are assigned to one of the two intervention or control groups based on throwing coins.

Category

Early detection

Recruitment centers

1

Recruitment center

Name of recruitment center

Farabi Hospital, Mashhad

Full name of responsible person

Ahmad Pouyamehr
Street address
Iran, Mashhad, Vakil abad Blvd, Kowsar St, Farabi Hospital.
City
Mashhad

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Mohsen Tafaghodi
Street address
Vice chancellor of research, Mashhad University of Medical Sciences
City
MASHHAD
Grant name
-
Grant code / Reference number
-
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Mashhad 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
Mashhad University of Medical Sciences
Full name of responsible person
Ahmad Pouyamehr
Position
MS in Nursing
Other areas of specialty/work
Street address
Doktora Crossroad - School of Nursing and Midwifery
City
Mashhad
Postal code
9137913199
Phone
+98 51 3859 1511
Fax
Email
pouyamehra931@mums.ac.ir
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Amir Mirhaghi
Position
PhD in Nursing
Other areas of specialty/work
Street address
Doktora Crossroad - School of Nursing and Midwifery
City
Mashhad
Postal code
9137913199
Phone
+98 51 3859 1511
Fax
Email
mirhaghia@mums.ac.ir
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Mashhad university of Medical sciences
Full name of responsible person
Ahmad Pouyamehr
Position
Other areas of specialty/work
Street address
Doktora Crossroad. School of Nursing and Midwifery
City
Mashhad
Postal code
9137913199
Phone
+98 51138591511
Fax
Email
pouyamehra931@mums.ac.ir
Web page address

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