

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

30 Jun 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.

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**Web page address**

**Person responsible for scientific inquiries**

**Contact**

**Name of organization / entity**

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**Full name of responsible person**

Amir Mirhaghi

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PhD in Nursing

**Other areas of specialty/work**

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**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**

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**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*