

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

20 Jun 2026

### Developing a comprehensive practical protocol for using point -of -care -ultrasonography in disposition of patients with acute non-traumatic dyspnea in emergency department

#### Protocol summary

##### Study aim

Developing a comprehensive practical protocol for using point -of -care -ultrasonography in disposition of patients with acute non-traumatic dyspnea in 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 16.

##### Settings and conduct

In this research, all patients referred to the to the Emergency Department of Hazrate Rasool hospital in Tehran who suffered from acute dyspnea will be enrolled. Patients will be randomly divided into two groups based on 4 blocks. A total of 32 patients will be examined. Data analyzers will be blind.

##### Participants/Inclusion and exclusion criteria

All patients referred to the Emergency Department of Hazrate Rasool hospital in Tehran who suffered from acute dyspnea will be enrolled. Inclusion criteria: Patients with sudden dyspnea. Exclusion criteria: Patients under the age of 18, Patients with trauma, Patients with chest pain or suspected symptoms of ischemic heart disease.

##### Intervention groups

In the intervention group, in addition to the routine diagnostic protocol patients will be subjected to using point -of -care -ultrasonography upon arrival. IN control group: Diagnostic examinations and routine diagnostic protocol of the emergency department will be performed.

##### Main outcome variables

The first diagnosis , The final diagnosis, Time to disposition of patient

#### General information

##### Reason for update

##### Acronym

POCUS

##### IRCT registration information

IRCT registration number: **IRCT20111114008104N14**

Registration date: **2018-12-03, 1397/09/12**

Registration timing: **prospective**

Last update: **2018-12-03, 1397/09/12**

Update count: **0**

##### Registration date

2018-12-03, 1397/09/12

##### Registrant information

###### Name

Mohammad Amin Zare

###### Name of organization / entity

Iran University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 6652 5327

###### Email address

ma-zare@sina.tums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2018-12-21, 1397/09/30

##### Expected recruitment end date

2019-03-11, 1397/12/20

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Developing a comprehensive practical protocol for using point-of-care -ultrasonography in disposition of patients with acute non-traumatic dyspnea in emergency department

**Public title**

The Effect of ultrasonography in disposition of patients

**Purpose**

Diagnostic

**Inclusion/Exclusion criteria****Inclusion criteria:**

Patients with sudden dyspnea

**Exclusion criteria:**

Patients under the age of 18  
Patients with trauma  
Patients with chest pain or suspected symptoms of ischemic heart disease

**Age**

From **18 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

- Data analyser

**Sample size**

Target sample size: **32**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

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 4 person. In each block, 2 individuals will be in intervention group and 2 will be in control group. A total of 8 blocks will be considered for sample size.

**Blinding (investigator's opinion)**

Single blinded

**Blinding description**

Data will analyze by person who is blind to study groups (single blind).

**Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics committee of Iran University of Medical Sciences

**Street address**

Iran University of Medical Sciences, Hemmat Highway, Tehran

**City**

Tehran

**Province**

Tehran

**Postal code**

1449614535

**Approval date**

2017-07-21, 1396/04/30

**Ethics committee reference number**

IR.IUMS.REC.1396.31512

**Health conditions studied****1****Description of health condition studied**

Point-of-care -ultrasonography at the patient's arrival

**ICD-10 code****ICD-10 code description****Primary outcomes****1****Description**

The first diagnosis

**Timepoint**

At the arrival of the patient

**Method of measurement**

Based on the information in the patient file

**2****Description**

The final diagnosis

**Timepoint**

After taking the medical treatment

**Method of measurement**

Based on the information in the patient file

**3****Description**

Time to disposition of patient

**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: In addition to the routine diagnostic protocol, patients will be subjected to using point-of-care -ultrasonography upon arrival.

**Category**

Diagnosis

**2****Description**

Control group: Diagnostic examinations and routine diagnostic protocol of the emergency department will be performed.

**Category**

Diagnosis

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

Hazrat Rasoul Akram hospital

**Full name of responsible person**

Mohammad Amin Zare

**Street address**

Emergency department, Hazrate Rasool hospital,  
Niyayesh street, Sattarkhan

**City**

Tehran

**Province**

Tehran

**Postal code**

1445613131

**Phone**

+98 21 6435 2190

**Email**

hrmc@iums.ac.ir

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

Iran University of Medical Sciences

**Full name of responsible person**

Kazem Malakooti

**Street address**

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

**City**

Tehran

**Province**

Tehran

**Postal code**

1445613131

**Phone**

+98 21 8670 2503

**Email**

research@iums.ac.ir

**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**

Mohammad Amin Zare

**Position**

Associate Professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Emergency Medicine

**Street address**

Emergency Department, Rasool Akram Hospital,  
Niayesh St. Sattarkhan St.

**City**

Tehran

**Province**

Tehran

**Postal code**

1445613131

**Phone**

+98 21 8670 2503

**Email**

mazare74@yahoo.com

**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Iran University of Medical Sciences

**Full name of responsible person**

Mohammad Amin Zare

**Position**

Associate Professor

**Latest degree**

Specialist

**Other areas of specialty/work**

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Emergency Department, Rasool Akram Hospital,  
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1445613131  
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+98 21 8670 2503  
**Email**  
mazare74@yahoo.com

1445613131  
**Phone**  
+98 21 8670 2503  
**Email**  
mazare74@yahoo.com

## Person responsible for updating data

### Contact

**Name of organization / entity**  
Iran University of Medical Sciences  
**Full name of responsible person**  
Mohammad Amin Zare  
**Position**  
Associate Professor  
**Latest degree**  
Specialist  
**Other areas of specialty/work**  
Emergency Medicine  
**Street address**  
Emergency Departement, Rasool Akram Hospital,  
Niayesh St. Sattarkhan St.  
**City**  
Tehran  
**Province**  
Tehran  
**Postal code**

## 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