

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The effect of education of using IMIST-AMBO protocol in delivering patients from pre-hospital staff on patient safety in hospital emergency department

#### Protocol summary

##### Study aim

The effect of education of using (Identification, Mechanism, Injuries, Signs, Treatment and Trends, Allergies, Medication, Background history, Other information) IMIST-AMBO protocol in delivering patients from pre-hospital staff on patient safety in hospital emergency department Shahid Gholipour Bukan Hospital in 1400

##### Design

Clinical trial with control group, with parallel group, one-way blind, randomized, on 400 patients. Randomizer software was used for randomization.

##### Settings and conduct

In this study, emergency medical personnel are trained and the effect of training on how patients are delivered in the emergency department is measured. Among the patients who are delivered by the emergency medical staff of the emergency department of Shahid Gholipour Bukan Hospital. 400 samples are selected by convenient sampling method.

##### Participants/Inclusion and exclusion criteria

Criteria for inclusion of patients in the study: The patient enters the emergency room by the pre-hospital emergency department  
Criteria for excluding patients from the study: 1- The patient leaves before 6 hours by completing and signing the personal consent form 2- Death of the patient before 6 hours 3- The need for emergency surgery or momentary transfer to other departments  
Criteria for including pre-hospital emergency staff and nurses in the study: Have at least six months of work experience in the emergency department or pre-hospital  
Criteria for excluding pre-hospital emergency staff and nurses from research: Lack of regular attendance at training classes

##### Intervention groups

Intervention group: Pre-hospital emergency staff who meet the inclusion criteria will be trained in the IMIST-

AMBO protocol in two face-to-face sessions. Control group: No educational intervention will be performed on the control group.

##### Main outcome variables

Improving the patient delivery and patient safety

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20211205053284N1**

Registration date: **2022-03-26, 1401/01/06**

Registration timing: **registered\_while\_recruiting**

Last update: **2022-03-26, 1401/01/06**

Update count: **0**

##### Registration date

2022-03-26, 1401/01/06

##### Registrant information

##### Name

Chiman Ebrahimian

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 44 4625 2160

##### Email address

chiman.ebrahimian@sbm.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2022-03-21, 1401/01/01

##### Expected recruitment end date

2022-05-22, 1401/03/01

**Actual recruitment start date**

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

The effect of education of using IMIST-AMBO protocol in delivering patients from pre-hospital staff on patient safety in hospital emergency department

**Public title**

Education of using IMIST-AMBO protocol in delivering patients from pre-hospital staff on patient safety in hospital emergency department

**Purpose**

Education/Guidance

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

The patient enters the emergency room by the pre-hospital emergency department Criteria for admission of pre-hospital emergency staff and nurses to work experience research for at least six months in the emergency department or pre-hospital

**Exclusion criteria:**

Patient leaves before 6 hours by completing and signing the personal consent form Patient dies before 6 hours Need emergency surgery or immediate transfer to other wards Exclusion criteria for pre-hospital emergency staff and nurses Lack of regular attendance at training classes

**Age**From **18 years** old**Gender**

Both

**Phase**

N/A

**Groups that have been masked***No information***Sample size**Target sample size: **400****Randomization (investigator's opinion)**

Randomized

**Randomization description**

Randomization is done in a simple and individual way using Randomizer random allocation software. Emergency medical personnel are listed according to the national code and then divided into group 1 (intervention) and group 2 (control) using random allocation software.

**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**

Ethics Committee in Research Schools of Pharmacy, Nursing and Midwifery - Shahid Beheshti University

**Street address**

In front of Shahid Rajaei Heart Hospital., Niayesh Intersection., Valiasr St., School of Nursing and Midwifery., Tehran

**City**

Tehran

**Province**

Tehran

**Postal code**

1985717443

**Approval date**

2021-11-02, 1400/08/11

**Ethics committee reference number**

IR.SBMU.PHARMACY.REC.1400.201

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

Patients transferred by pre-hospital emergency.

**ICD-10 code**

N98.3

**ICD-10 code description**

Safety

**Primary outcomes****1****Description**

Patient safety The meaning of patient safety is the score obtained from the checklist of safety assessment of patients admitted to the emergency room, which measures patient safety in the areas of 1) attention to drugs with similar forms and pronunciation, 2) correct patient identification, 3) communication Effective health workers at the time of patient delivery, 4) Performing the correct procedure in the correct location of the patient's body, 5) Controlling high concentration electrolyte solutions, 6) Ensuring drug accuracy in the delivery of care services, 7) Avoiding incorrect connections of catheters and tubes, 8 ) Measures the immediate use of injection equipment. 9) Improves hand hygiene to prevent infections.

**Timepoint**

Before intervention and after intervention

**Method of measurement**

Questionnaire nine WHO patient safety solutions

**Secondary outcomes**

empty

## Intervention groups

### 1

#### Description

Intervention group: Pre-hospital emergency staff Step 1 (before intervention): For all patients (traumatic and non-traumatic) who are delivered to the emergency department by pre-hospital emergency staff and delivered as usual, the safety standards checklist by the researcher is up to six hours (4 to 6 hours). ) Will be completed later. The reason for the period of four to six hours is the stabilization of the patient's condition and the initial stages of care and treatment, which is done faster in some patients and later in others. Also, according to the laws of the Ministry of Health, each patient in the emergency department must be assigned within six hours and a final decision must be made regarding the patient's hospitalization or discharge. Step 2 (Intervention): In this step, all pre-hospital emergency staff of the IMIST-AMBO protocol intervention group will be trained in two face-to-face sessions. The validity of the educational content is confirmed by 4 emergency medicine specialists and nursing faculty members. The training will be presented by the researcher using PowerPoint in person for two hours. It should be noted that the objectives of the research will be explained to all participants and all of them will be informed. Stage 3 (after intervention): In this stage, the safety checklist of patients admitted to the emergency department for all trauma and non-trauma patients who have been transferred to the hospital by pre-hospital emergency staff trained in the IMIST-AMBO protocol, until Six hours (4 to 6 hours) will be completed later. Then the patient's safety in the stage before and after the study will be compared with each other and the results will be prepared for statistical analysis.

#### Category

Prevention

### 2

#### Description

Control group: Pre-hospital emergency staff did not intervene in the control group

#### Category

Prevention

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Emergency department of Shahid Gholipour Hospital in Bukan

##### Full name of responsible person

Chiman Ebrahimian

##### Street address

Shohada Boulevard.,Shahid Gholipur Hospital.,Bukan

##### City

Bukan

#### Province

West Azarbaijan

#### Postal code

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#### Phone

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## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Shahid Beheshti University of Medical Sciences

##### Full name of responsible person

Mahrokh Dolatian

##### Street address

In front of Shahid Rajaei Heart Hospital.,Niayesh Intersection.,Valiasr St.,School of Nursing and Midwifery.,Tehran

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##### Province

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##### Postal code

1985717443

##### Phone

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##### Email

sbnmf@sbmu.ac.ir

##### Web page address

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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

Shahid Beheshti 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

Shahid Beheshti University of Medical Sciences  
**Full name of responsible person**  
Chiman Ebrahimian  
**Position**  
Master of Science Emergency Nursing Student  
**Latest degree**  
Bachelor  
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Nursery  
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Amirabad - Keshavarz Boulevard - next to Bisotoun  
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## Person responsible for scientific inquiries

### Contact

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Shahid Beheshti University of Medical Sciences  
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Fateme Monjazebi  
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## Person responsible for updating data

### Contact

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**Email**  
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## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

### Study Protocol

Yes - There is a plan to make this available

### Statistical Analysis Plan

Yes - There is a plan to make this available

### Informed Consent Form

Yes - There is a plan to make this available

### Clinical Study Report

Yes - There is a plan to make this available

### Analytic Code

Yes - There is a plan to make this available

### Data Dictionary

Not applicable

### Title and more details about the data/document

Safety measured before and after the intervention

### When the data will become available and for how long

Access to the study will be after the publication of the article

### To whom data/document is available

The data will be available to all medical researchers

### Under which criteria data/document could be used

If the principles of research ethics are observed, it will be provided to researchers.

### From where data/document is obtainable

Refer to the registration email address in the published article and request.

### What processes are involved for a request to access data/document

The article will be provided to the requesting researchers immediately after approval and publication.

### Comments