

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

27 Jun 2026

### Investigation of the effectiveness of an educational intervention based on the Planned Behavior Theory on hand washing intention among nurses

#### Protocol summary

##### Study aim

The investigation of effectiveness of an educational intervention based on the Planned Behavior Theory on hand washing intention among nurses

##### Design

The study is a clinical trial that has two intervention and control groups. The nurses of the two selected hospitals are randomly divided into two groups of intervention and control. Each group includes 30 nurses. Of the nurses who received the 21-item questionnaire, the hand-washing scores were lower than 63, 60 would be selected from both hospitals

##### Settings and conduct

Educational intervention was performed on the intention of hand washing in nurses of Imam Khomeini Hospital and Martyr Mostafa Khomeini in Ilam city. no blindness was done in the study.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: At least a bachelor's degree in nursing. At least one year of work experience in the hospital. Exclusion criteria: Nurses with experience in the operating room. Nurses with less than one year work experience in a hospital. Nurses who teach for nursing students.

##### Intervention groups

In intervention group, educational intervention will be conducted during a one-month and weekly one-session (90 minutes) according to the planned behavioral model constructs. Educational content based on scientific and new resources related to the theory of planned behavior. In the control group, no intervention is given and only the routine training center receives.

##### Main outcome variables

attitude, mental norms, perceived behavior control and intention

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20180721040540N1**  
Registration date: **2018-08-26, 1397/06/04**  
Registration timing: **registered\_while\_recruiting**

Last update: **2018-08-26, 1397/06/04**

Update count: **0**

##### Registration date

2018-08-26, 1397/06/04

##### Registrant information

##### Name

Heshmatolah Heydari

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 66 3312 0160

##### Email address

heidari.h@lums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2018-08-10, 1397/05/19

##### Expected recruitment end date

2018-10-11, 1397/07/19

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Investigation of the effectiveness of an educational intervention based on the Planned Behavior Theory on hand washing intention among nurses

**Public title**

The effect of training on hand washing

**Purpose**

Prevention

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

At least one year of work experience in the hospital. Earn score less than 63 from the questionnaire At least a bachelor's degree in nursing. Consent to participate in the study

**Exclusion criteria:**

Nurses with experience in the operating room. Nurses with less than one year work experience in a hospital. Nurses who teach for nursing students.

**Age**

No age limit

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

No information

**Sample size**

Target sample size: 60

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Sampling is done simple randomly and then divided into two groups using lottery

**Blinding (investigator's opinion)**

Not blinded

**Blinding description****Placebo**

Not used

**Assignment**

Other

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

empty

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

Ethics committee of Lorestan University of Medical Sciences

**Street address**

Faculty of nursing and midwifery, Lorestan University of Medical

**City**

Khoramabad

**Province**

Lorestan

**Postal code**

6813833946

**Approval date**

2018-06-25, 1397/04/04

**Ethics committee reference number**

IR.LUMS.REC.1397.036

**Health conditions studied****1****Description of health condition studied****ICD-10 code****ICD-10 code description****Primary outcomes****1****Description**

Score of the constructs of planned behavior theory in the behavioral questionnaire of intention to do handwashing

**Timepoint**

Time intervals Measurement of intention to do hand washing in nurses before, immediately and one month after intervention

**Method of measurement**

Measuring the Intent of a Planned Behavior Model questionnaire

**Secondary outcomes**

empty

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

Intervention group: educational intervention will be conducted during a one-month and weekly one-session (90 minutes) according to the plan. First session: Use of group discussion on hand washing and its importance by participants, the lecture with slide about hospital infections by the researcher. second session: The lecture with slide about hand washing based on approved protocols, provide group discussion about barriers of hand washing and factors that motivate and encourage hand hygiene by participants. Third session and fourth session: Review previous sessions, a group discussion on the role of other people, such as colleagues and physicians, in the proper handling of hands, summing up through the group discussion and question of the influence of participants from people.

**Category**

Behavior

**2****Description**

Control group: The control group receives only routine training at this time.

**Category**

Behavior

## Recruitment centers

### 1

#### Recruitment center

**Name of recruitment center**

Shahid Mostafa Khomeini Hospital Ilam

**Full name of responsible person**

Heshmatolah Heidari

**Street address**

Keshvary Square , Martyr Mostafa Khomeini Hospital

**City**

Ilam

**Province**

Ilam

**Postal code**

6931934833

**Phone**

+98 84 3333 8228

**Email**

info@medilam.ac.ir

### 2

#### Recruitment center

**Name of recruitment center**

Imam Khomeini Hospital

**Full name of responsible person**

Heshmatolah Heidari

**Street address**

Ayatollah Heidari Street

**City**

Ilam

**Province**

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**Postal code**

6931975397

**Phone**

+98 84 3333 8757

**Email**

info@medilam.ac.ir

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**

Khoram-Abad University of Medical Sciences

**Full name of responsible person**

Morovat TaheriKalani

**Street address**

Faculty of nursing and midwifery, Lorestan University of Medical

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**Province**

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**Email**

pr@lums.ac.ir

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Khoram-Abad 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**

Khoram-Abad University of Medical Sciences

**Full name of responsible person**

Heshmatolah Heidari

**Position**

Associate professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Nursery

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## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**

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**Full name of responsible person**

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**Person responsible for updating data****Contact****Name of organization / entity**

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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**

Yes - There is a plan to make this available

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

En we share the SPSS data file, questioners and final reports

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

En at the final step of the project after publishing the article

**To whom data/document is available**

the journal editors, researchers

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

the researcher have an academic email and link

**From where data/document is obtainable**

sending a request to the corresponding author

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

after requesting, the data will send during one week

**Comments**

no applicable