Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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 tow 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

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Ilam

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6931934833

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2

Recruitment center

Name of recruitment center
Imam Khomeini Hospital

Full name of responsible person
Heshmatolah Heidari

Street address
Ayatollah Heidari Street

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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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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

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Full name of responsible person
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Position
Associate professor

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Person responsible for updating data

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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 requisting, the data will send during one week
Comments
no applicable