Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

The Impact of Hospital Intervention Services (HIS)Based on Pender's Health Promotion Model on the Hand Hygiene Compliance by Staff

Protocol summary

Study aim

This study was designed to determine the impact of Hospital Intervention Services (HIS) Based on Pender's Health Promotion Model on the hand hygiene compliance by the ICU staff.

Design

This was a quasi-experimental study with a pre-post intervention design; without blinded

Settings and conduct

The hand hygiene questionnaire, based on the Pender's model and the standard hand hygiene , was monitored before and after the intervention in the employees of ICU.without blinding; the number of opportunity monitored was 1796 and 2343. The intervention was designed to improve health By analyzing the design questionnaire and finding the method of intervention for 4 months in 2019.

Participants/Inclusion and exclusion criteria

Input criterion: ICU Staff, Passing hand hygiene trainin Out Put Criterion: lack of desire to participate in the project and Sensitivity history

Intervention groups

Intervention group: Participants were 90 staff (physicians, nurses, assistant nurses, and services) in public critical units of the Imam Reza Hospital in Mashhad (Iran).after the completion of the research tool and analysis of results, interventions were designed at 5 axes: 1 Change in the Working Environment (Co - ordination with management acceptance of solution and change in alcoholic solution),2 Education (face-to-face and pamphlet), 3 reminder Installation(sign on the patient's bed, hand hygiene guide in the environment), 4 Evaluation and report (giving feedback to person , diagram , sending sms) ,5 management support from the plan in coordination , then completing the questionnaire and examining the extent of change

Main outcome variables

Hand Hygiene Compliance, Structure of Pender's Health Promotion Model(perceived benefits of action, perceived barriers to action, perceived self - efficacy, interpersonal influences, situational influences)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190517043608N1**
Registration date: **2020-06-15, 1399/03/26**
Registration timing: **retrospective**

Last update: **2020-06-15, 1399/03/26**
Update count: **0**

Registration date

2020-06-15, 1399/03/26

Registrant information

Name

nasrin khosravi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3802 2793

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-04-05, 1398/01/16

Expected recruitment end date

2019-08-16, 1398/05/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
The Impact of Hospital Intervention Services (HIS)Based on Pender's Health Promotion Model on the Hand Hygiene Compliance by Staff

Public title
The Impact Pender's model on the Hand Hygiene Compliance

Purpose
Prevention

Inclusion/Exclusion criteria
Inclusion criteria:
Passed the Hand Hygiene training course last year Tendency to participate in the project
Exclusion criteria:
History of allergy to detergents or alcohol Lack of desire to participate in the project

Age
From **23 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **90**

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Single

Other design features
Intervention design according to the findings of the questionnaire based on the standard model in the initial monitoring

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of Gonabad University of Medical Sciences
Street address
Asian Blvd
City
Gonabad
Province
Razavi Khorasan
Postal code
9999999900
Approval date
2018-07-27, 1397/05/05
Ethics committee reference number
IR.GMU.REC.1397.055

Health conditions studied

1

Description of health condition studied
Hand hygiene
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Hand hygiene as a professional behavior is one of the most effective waysto improve hospital infections

Timepoint
April 16, initial monitoring and 4, 8 and 12 weeks after the intervention(End of June, July and August months 2019)

Method of measurement
The research tool: The World Health Organization's standard hand hygiene monitoring form and researcher-made questionnaire to assess the hand hygiene compliance behavior based on the structures of the Pender's Health Promotion Model

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Participants were 90 staff (physicians, nurses, assistant nurses, and services) in public critical units of the Imam Reza Hospital in Mashhad (Iran).after the completion of the research tool (standard Hand Hygiene questionnaire and researcher - made questionnaire based on Pender's model ānd Analysis of results, then, interventions were designed at 5 axes: 1 Change in the Working Environment (Co - ordination with management in providing soap, paper towels, acceptance of solution and change in alcoholic solution),2 Education (face-to-face and poster and pamphlet preparation), 3 reminder installation (sign on the patient's bed, hand hygiene guide in the environment), 4 E̱valuation and report (giving feedback to person , diagram , sending sms) ,5 management support from the plan in coordination , then completing the questionnaire and examining the extent of change

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center
Emam Reza Hospital.ICU

Full name of responsible person
Masoumeh Hoseini

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Mashhad University of Medical Sciences

Full name of responsible person
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Grant name
0

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
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
Gonabad University of Medical Sciences

Full name of responsible person
Dr. Shahla KHosravan

Position
Associated professor

Latest degree
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Other areas of specialty/work
Nursery

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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
Undecided - It is not yet known if there will be a plan to make this available
Clinical Study Report
Not applicable
Analytic Code
Not applicable
Data Dictionary
Not applicable
Title and more details about the data/document
a researcher-made questionnaire to assess the hand hygiene compliance behavior based on the structures of the Pender's Health Promotion Model
When the data will become available and for how long
2021 may
To whom data/document is available
Dr. Shahla KHosravan, Ali Alami, Dr. Mohammad hassan Aelami, Nasrin khosravi and It will be available for researchers working in academic and scientific institutions
Under which criteria data/document could be used
Investigating the effect of other models on hand hygiene
From where data/document is obtainable
Khosravi Nasrin
What processes are involved for a request to access data/document
khosravin3@mums.ac.ir
Comments