

Nosocomial infection educational module for nurses

Submission date 19/05/2017	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 23/06/2017	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 27/10/2022	Condition category Infections and Infestations	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Nosocomial infections are infections that are contracted from being in a hospital. Infection can be easily spread by healthcare staff to different patients. Nosocomial infection is a major global health problem, and is considered as one of the leading causes of increased morbidity (illness) and mortality (death). Nursing education related to infection control measures can help nurses to make informed decisions to try and prevent or reduce nosocomial infections. Researchers have developed an educational plan for Yemeni nurses working in public hospitals. This plan needs to be evaluated for its effectiveness. The aim of the study is to increase the awareness and knowledge regarding nosocomial infection control measures among Yemeni nurses and subsequently helps them to maintain a high quality of care, and protect themselves, their patients and visitors as well.

Who can participate?

Nurses working at selected Yemeni hospitals.

What does the study involve?

Participating hospitals are randomly allocated to one of three groups. Those in the first group receive an audio-visual educational training and a training course for eight weeks to improve nurses' knowledge and practices regarding nosocomial infection controls. Those in the second group are given only the audio-video CD education module. Those in the last group are put on a waiting list to be given the same training and learning materials after the study is completed. Participants fill out questionnaires before the study and immediately after the programme as well as three months after the programme to assess their knowledge and practices for infection control.

What are the possible benefits and risks of participating?

There are no notable benefits or risks with participating.

Where is the study run from?

This study is being run by Ministry of Higher Education and Scientific Research (Yemen) and takes place in public hospitals in the Azal region of Yemen.

When is the study starting and how long is it expected to run for?
April 2015 to October 2016

Who is funding the study?
Ministry of Higher Education and Scientific Research (Yemen)

Who is the main contact?
Mr Gamil Alrubaiee

Contact information

Type(s)
Scientific

Contact name
Mr Gamil Alrubaiee

ORCID ID
<http://orcid.org/0000-0003-2468-6732>

Contact details
Department of Community Health
Faculty of Medicine & Health Sciences
University Putra Malaysia
Serdang
Selangor Darul Ehsan
Malaysia
43400 UPM

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
UPM/TNCPI/RMC/1.4.18.1 (JKEUPM)/F2

Study information

Scientific Title
Effectiveness of nosocomial infection control education module for nurses in public hospital in Azal region, Yemen

Study objectives

1. There is a significant association between scores of nurses' knowledge and practice and the previous in-service training courses
2. There is a significant association between scores of nurses' knowledge and practice and the

previous working experience

3. There are significant differences in nurses' knowledge scores between the intervention groups and the wait-list group at baseline, immediately after and three months post-intervention
4. There are significant differences in practice scores between the intervention groups and the wait-list group at baseline, immediately after and three months post-intervention

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics Committee for Research involving Human Subjects of University Putra Malaysia (JKEUPM), 06/02/2015, ref: UPM/TNCPI/RMC/1.4.18.1 (JKEUPM)

Study design

Single-blinded randomised community trial

Primary study design

Interventional

Secondary study design

Cluster randomised trial

Study setting(s)

Hospital

Study type(s)

Prevention

Participant information sheet

Health condition(s) or problem(s) studied

Nurses' knowledge and practices regarding nosocomial infection control measures before and immediately post-intervention and three months after.

Interventions

This study is conducted in three phases:

Phase one: Module & instrument development

Phase two: Module implementation

Phase three: Module evaluation

During the second phase of the study, the module implementation, participants are randomly assigned based on their hospital to one of three groups. Three arms are formed for the purpose of this study, two of them are intervention groups, while the third one is a wait list group (control group). Eight hospitals are allocated by the ratio 2:2, four hospitals are assigned to the wait list group, and the other four hospitals are allocated evenly to each of the two intervention groups. Assignment to the groups is done by simple randomisation using a table of random numbers generated by Computer. This study is single-blind trial, therefore the researcher is aware about the allocation, while the hospitals are not aware about it until the intervention started, after which blinding is not possible because the intervention hospitals receive the training course.

Three groups are formed for the purpose of this study, two of them are experimental groups, while the third one is a waitlist group, meaning no intervention are received by the participants in this group during the period of data collection but for ethical considerations the wait list group given the same training and learning materials after phase three. All participants fill out a questionnaire prior to the interventions.

Group 1 (Intervention group 1): Participants receive an educational module supported by audio-video CD and training course for eight weeks that aims to improve nurses' knowledge and practices regarding nosocomial infection control measures.

Group 2 (Intervention group 2): Participants are given only the educational module with audio-video CD and not the training course.

Group 3 (Wait list group): Participants receive no intervention during the period of data collection but for ethical considerations the wait list group given the same training and learning materials after phase three.

Participants are followed up with questionnaires immediately post-intervention and three month post-intervention. Correct, incorrect, and I don't know statements are used to evaluate this dimension (30-items).

Intervention Type

Behavioural

Primary outcome measure

1. Nurse's knowledge is measured using the NIs-Questionnaire at baseline, immediately post-intervention, and three month post-intervention
2. Nurses practices is measured using the NIs-Questionnaire at baseline, immediately post-intervention, and three month post-intervention

Secondary outcome measures

There are no secondary outcome measures.

Overall study start date

01/04/2015

Completion date

30/10/2016

Eligibility

Key inclusion criteria

1. Yemeni Fully employed nurses working in the selected hospitals
2. Both male and female
3. Have a three year diploma in nursing after secondary school

Participant type(s)

Health professional

Age group

Adult

Sex

Both

Target number of participants

540 NURSES

Total final enrolment

540

Key exclusion criteria

Foreign nurses

Date of first enrolment

08/06/2015

Date of final enrolment

12/12/2015

Locations

Countries of recruitment

Yemen

Study participating centre

Public hospitals

Azal Region

Sana'a

Yemen

2124

Sponsor information

Organisation

Ministry of Higher Education and Scientific Research

Sponsor details

P.O. Box 11327

Sana'a

Yemen

11327

+967 1 274 553

moheyemen@gmail.com

Sponsor type

Government

Website

<http://www.yemen.gov.ye>

Funder(s)

Funder type

Government

Funder Name

Ministry of Higher Education and Scientific Research Yemen

Results and Publications

Publication and dissemination plan

Planned publication of the study protocol and then planned publication of the results in a high impact peer reviewed journal.

Intention to publish date

31/12/2017

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from the researcher Gamil Ghaleb Ahmed Nasr, email address: arubaiee73@gmail.com

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Participant information sheet	protocol	02/09/2013	26/06/2017	No	Yes
Protocol article		01/12/2019		Yes	No
Results article		17/02/2021	27/10/2022	Yes	No