

# Nosocomial infection educational module for nurses

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<b>Registration date</b> 23/06/2017	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 27/10/2022	<b>Condition category</b> 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

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## Additional identifiers

### Protocol serial number

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

## **Study type(s)**

Prevention

## **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(s)**

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

### **Key secondary outcome(s)**

There are no secondary outcome measures.

### **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

### **Healthy volunteers allowed**

No

### **Age group**

Adult

### **Sex**

All

### **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

## Funder(s)

**Funder type**

Government

**Funder Name**

Ministry of Higher Education and Scientific Research Yemen

## Results and Publications

**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?
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<a href="#">Results article</a>		17/02/2021	27/10/2022	Yes	No
<a href="#">Protocol article</a>	protocol	01/12/2019		Yes	No
<a href="#">Participant information sheet</a>		02/09/2013	26/06/2017	No	Yes