

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Designing, implementation and evaluation of an educational program based on MTM approach in promoting antimicrobial prescription behavior among veterinarian students

Protocol summary

Study aim

Explaining the design, implementation and evaluation of educational program based on multi-theory model on promoting antibiotic prescribing behavior in students of Faculty of Veterinary Medicine, Bahonar University of Kerman

Design

A clinical trial with control group, census entry method, was used on 40 veterinary students in the intervention group.

Settings and conduct

Bahonar University of Kerman Veterinary School will be the place of intervention and using its educational and laboratory services

Participants/Inclusion and exclusion criteria

Inclusion criteria 1- Willingness to participate in research 2- No history of participating in antibiotic resistance training programs 3- Satisfaction to participate in the study 4- Studying as a student in the veterinary doctorate Exclusion criteria 1- Failure to complete the research questionnaire 2- Not participating in training sessions for more than one session

Intervention groups

Pre-internship and internship students in veterinary medicine will be Bahonar and Ferdowsi Mashhad University with participating in training and laboratory sessions. the subject of interventions regarding AMR, its side effects, and preventing and reduce its occurrence in their field of work, which will eventually be integrated with One-health approach to reduce the effects of AMR in society.

Main outcome variables

Promote and improve the antibiotic administration behavior to prevent the spread of antibiotic resistance in the community

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210911052432N1**

Registration date: **2021-09-17, 1400/06/26**

Registration timing: **prospective**

Last update: **2021-09-17, 1400/06/26**

Update count: **0**

Registration date

2021-09-17, 1400/06/26

Registrant information

Name

Razie Toghroli

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 34 4242 6388

Email address

r.toghroli@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-09-20, 1400/06/29

Expected recruitment end date

2021-12-21, 1400/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Designing, implementation and evaluation of an educational program based on MTM approach in promoting antimicrobial prescription behavior among veterinarian students

Public title

evaluation of an educational program based on MTM approach in promoting antimicrobial prescription behavior among veterinarian students

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

1- Willingness to participate in research 2- Lack of participation in antibiotic resistance training programs 3- Satisfaction to participate in the study 4- Studying as a student in the veterinary doctorate 22-28 years old

Exclusion criteria:

Willingness to participate in research participation in antibiotic resistance training programs

Age

From **22 years** old to **28 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **81**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Hormozgan University of Medical Sciences

Street address

Pasdaran St., Alley 7, No. 2

City

baft

Province

Kerman

Postal code

7851919814

Approval date

2021-08-22, 1400/05/31

Ethics committee reference number

IR.HUMS.REC.1400.207

Health conditions studied

1

Description of health condition studied

Behavior of antibiotic prescribing

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The score of intervention structures based on MTM model related to the measurement of prescriptive behavior change in veterinary students

Timepoint

3 month after intervention

Method of measurement

Researcher-made multi-theory model questionnaire in assessing antibiotic prescribing behavior

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Pre-internship and veterinary internship students of Bahonar University of Kerman will be included in the census method, 40 veterinary students were used in the intervention group. Either online or a combination of both between 12-15 sessions depending on the conditions of the university during the Covid-19 epidemic and face-to-face laboratory sessions will be about 3-5 sessions. The content of these sessions will be about the correct behavior of antibiotic prescribing, promotion and improvement of antibiotic prescribing behavior to prevent the spread of antibiotic resistance in the community, how to prescribe correctly, the harms of antibiotic resistance in the community and how to perform appropriate laboratory tests

Category

Behavior

2

Description

Control group: In the control group, 41 pre-internship and internship students of Ferdowsi University of Mashhad will enter the study, and no special educational and practical intervention will be performed on it.

Category
Behavior

Country of origin
Type of organization providing the funding
Academic

Recruitment centers

1

Recruitment center

Name of recruitment center
Bahonar Kerman university
Full name of responsible person
Razie Toghroli
Street address
Pasdaran St., Alley 7, No. 2
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Bandare-abbas University of Medical Sciences
Full name of responsible person
Teamur Aghmolaei
Street address
Boulevard Imam Hussein. Hormozgan University of
Medical Sciences. Vice President for Research
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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Bandare-abbas 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

Person responsible for general inquiries

Contact

Name of organization / entity
Bandare-abbas University of Medical Sciences
Full name of responsible person
Razie Toghroli
Position
PhD student
Latest degree
Medical doctor
Other areas of specialty/work
Health Promotion
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Person responsible for scientific inquiries

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Person responsible for updating data

Contact

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Full name of responsible person

Razie Toghroli

Position

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Latest degree

Medical doctor

Other areas of specialty/work

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to

make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

All data is potentially shareable after unidentified individuals

When the data will become available and for how long

From the beginning of 1401

To whom data/document is available

Researchers working in academic and scientific institutes and researchers interested in research on the prevention of antibiotic resistance

Under which criteria data/document could be used

Provided that there is no scientific and literary theft and as long as the originality of the research is preserved and the original research is not interfered

From where data/document is obtainable

r.toghroli@yahoo.com

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

Email to the principal or responsible researcher

Comments