Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparing the impact of educational messages based on an Extended Parallel Process Model on preventive behaviors of the infectious respiratory diseases, with emphasis on COVID-19 among elementary school girls: A four-group randomized trial

Protocol summary

Study aim
Comparing the impact of educational messages based on an Extended Parallel Process Model on preventive behaviors of the infectious respiratory diseases, with emphasis on COVID-19

Design
Clinical trial with control group and three intervention groups, one-way blind, randomized, on 300 students. Random number table was used for randomization.

Settings and conduct
a quasi-experimental educational intervention study designed and conducted in 1400 by simple random sampling method to investigate the effect of messages based on a parallel process model developed in fifth grade elementary school girls in Borkhar (a four-group intervention study). Will be.

Participants/Inclusion and exclusion criteria
Fifth grade students living in Borkhar city, have satisfaction for the company, having a smartphone and attending a virtual program (shad or WhatsApp) Unwillingness to continue the company, leaving the city, not completing the questionnaire in the pre-test or post-test, losing access to messages and questionnaires

Intervention groups
Group 1: Posters containing perceived intensity and sensitivity messages (perceived threat), Group 2: Posters containing perceived effectiveness messages, Group 3: Posters containing perceived threat and effectiveness messages based on EPPM and related to the topic of Covid Preventive Behaviors will be sent. Group 4 (Control Group): No intervention

Main outcome variables
Perceived Susceptibility and Severity, Self-efficacy, Response efficiency, Fear, Fear control, Danger control

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20210623051681N1**
Registration date: **2021-07-26, 1400/05/04**
Registration timing: **registered_while_recruiting**

Last update: **2021-07-26, 1400/05/04**
Update count: **0**

Registration date
2021-07-26, 1400/05/04

Registrant information

Name
Soheila SHarifi Habibabadi
Name of organization / entity
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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2021-07-23, 1400/05/01

Expected recruitment end date
2021-09-23, 1400/07/01

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date

empty

Scientific title
Comparing the impact of educational messages based on an Extended Parallel Process Model on preventive behaviors of the infectious respiratory diseases, with emphasis on COVID-19 among elementary school girls: A four-group randomized trial

Public title
Comparing the impact of educational messages based on an Extended Parallel Process Model on preventive behaviors of the infectious respiratory diseases, with emphasis on COVID-19

Purpose
Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:
Fifth grade elementary school girls living in Borkhar city Having the consent to participate in the study Having a smartphone and attending a virtual application (SHad or Whats App)

Exclusion criteria:
Student's unwillingness to continue participating in the study Leaving the city for any reason Failure to complete the questionnaire in the pre-test or post-test Loss of access to messages and questionnaires for any reason related to the smartphone and leaving the virtual application (SHad or Whats App)

Age
From **11 years** old to **12 years** old

Gender
Female

Phase
N/A

Groups that have been masked

- Data analyser

Sample size
Target sample size: **300**

Randomization (investigator's opinion)
Randomized

Randomization description
First, a list of names of all girls' schools in Borkhar city, including the number of fifth grade elementary students, is prepared and given to each of the schools. The city will be given a two-digit code (01,02, 03, ..., 38). Then we select 16 codes randomly using a simple random number table, then again sampled using a random number table of 16 schools, into different study groups (three intervention groups and one control group) Will be allocated.

Blinding (investigator's opinion)
Single blinded

Blinding description
The data analyzer is not aware of the allocation of individuals in study groups (intervention and control) which was done randomly. This random method has led to a one-way blinding of the study.

Placebo
Not used

Assignment
Factorial

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of isfahan University of Medical Sciences

Street address
Isfahan University of Medical Sciences, Hezar Jerib street

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Isfahan

Province
Isfehan

Postal code
8174673461

Approval date
2021-06-09, 1400/03/19

Ethics committee reference number
IR.MUI.RESEARCH.REC.1400.127

Health conditions studied

1

Description of health condition studied
Infectious Respiratory Diseases, with emphasis on Covid-19

ICD-10 code
U07.1

ICD-10 code description
COVID-19, virus identified

Primary outcomes

1

Description
Respiratory Infectious Diseases Prevention Behaviors, with Emphasis on Covid-19

Timepoint
One week after the intervention

Method of measurement
A researcher-made questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

The first group of intervention: by referring to the schools in question and talking to the principal of each school, they are asked to cooperate, then the parents of the children are called and the plan is explained to them and if they want to cooperate, they are asked to use Their contact number in WhatsApp or Shad should form a group and be divided into 4 study groups according to the randomly selected samples and, if necessary, attend the school in accordance with the health protocols. This study will be invited to participate in the study. Research subjects will be justified on how to do it, the confidentiality of information and also the purpose of the study, and all of them will enter the study if they wish and after expressing their consent. Before conducting the educational intervention in order to perform (Pre-test), the link of the online questionnaire will be placed among the selected students of the test and control groups, then they will be asked to answer the questionnaire carefully. Online questionnaires will be completed within 7 days. Educational posters will be selected from educational posters approved by the Ministry of Health and will be divided into three test groups based on the content of the poster. Will be sent with the intervention group. In the first intervention group: after the pre-test, 3 posters containing messages of perceived severity and sensitivity (perceived threat) based on EPPM and related to the topic of preventive behaviors Quid will be sent. After the educational intervention for post-test, the link of the online questionnaire will be placed among the selected students of the test and control groups, then they will be asked to answer the questionnaire carefully.

Category

Behavior

2

Description

The second group of intervention: by referring to the schools in question and talking to the principal of each school, they are asked to cooperate, then the parents of the children are contacted by phone and the plan is explained to them and asked if they want to cooperate using Their contact number should be grouped in WhatsApp or Shad and should be divided into 4 study groups according to the randomly selected samples and, if necessary, attend the school in accordance with health protocols. Students should be selected based on the inclusion criteria and qualified This study will be invited to participate in the study. Research subjects will be justified on how to do it, the confidentiality of information and also the purpose of the study, and all of them will enter the study if they wish and after expressing their consent. Before performing the educational intervention in order to perform (Pre-test), the link of the online questionnaire will be placed among the selected students of the test and control groups, then they will be asked to answer the questionnaire carefully. Online questionnaires will be completed within 7 days. Educational posters will be selected from educational posters approved by the Ministry of Health and based on the content of the poster will be divided into three test groups and during the intervention (one week) three appropriate posters for each test group. Will be sent with the intervention group. In the second group of the intervention: After the pre-test, 3 posters will be sent containing the perceived efficiency messages based on EPPM and related to the topic of Covid prevention behaviors. After the educational intervention for post-test, the link of the online questionnaire will be placed among the selected students of the test and control groups, then they will be asked to answer the questionnaire carefully.

Category

Behavior

3

Description

Intervention group 3: By referring to the schools in question and talking to the principal of each school, they are asked to cooperate, then the parents of the children are contacted by phone and the plan is explained to them and asked if they want to cooperate using Their contact number in WhatsApp or Shad should form a group and be selected in 4 groups according to the randomly selected samples and, if necessary, attend the school in accordance with health protocols. Students are selected based on the inclusion criteria and are eligible. This study will be invited to participate in the study. Research subjects will be justified on how to do it, the confidentiality of information and also the purpose of the study, and all of them will enter the study if they wish and after expressing their consent. Before conducting the educational intervention in order to perform (Pre-test), the link of the online questionnaire will be placed among the selected students of the test and control groups, then they will be asked to answer the questionnaire carefully. Online questionnaires will be completed within 7 days. Educational posters will be selected from educational posters approved by the Ministry of Health and will be divided into three test groups based on the content of the poster. Will be sent with the intervention group. In the third intervention group: After the pre-test, 3 posters containing threatening messages and perceived effectiveness based on EPPM and related to the topic of prevention behaviors will be sent. After the educational intervention for post-test, the link of the online questionnaire will be placed among the selected students of the test and control groups, then they will be asked to answer the questionnaire carefully.

Category

Behavior

4

Description

Fourth intervention group (control): by referring to the schools in question and talking to the principal of each school, they are asked to cooperate, then the children's parents are called and the plan is explained to them and they are asked if they want to cooperate. Using their WhatsApp or Shad contact number, form a group and study in 4 groups according to the randomly selected samples and, if necessary, attend the school in

accordance with health protocols. Students are selected based on the inclusion criteria and Eligible students of this study will be invited to participate in the study. Research subjects will be justified on how to do it, the confidentiality of information and also the purpose of the study, and all of them will enter the study if they wish and after expressing their consent. Before conducting the educational intervention in order to perform (Pre-test), the link of the online questionnaire will be placed among the selected students of the test and control groups, then they will be asked to answer the questionnaire carefully. Online questionnaires will be completed within 7 days. Educational posters will be selected from educational posters approved by the Ministry of Health and will be divided into three test groups based on the content of the poster. Will be sent with the intervention group. In the fourth group of intervention: the group that is considered as the control group will not be subjected to any educational intervention and one week after the intervention, simultaneously with the first, second and third groups of the post-test in this The group will do the same.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Borkhar city schools

Full name of responsible person

Mohammad Reza Masoumi

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

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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

Esfahan 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

Esfahan University of Medical Sciences

Full name of responsible person

Soheila SHarifi habibabadi

Position

MSc student

Latest degree

Bachelor

Other areas of specialty/work

Health Promotion

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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
Undecided - It is not yet known if there will be 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
Undecided - It is not yet known if there will be 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