

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Jul 2026

The effect of Educational Intervention Based on Social Cognitive Theory on Promoting Knowledge and usage of personal protective equipment among Aluminum factory workers

Protocol summary

Study aim

The aim of this study is to determine the effect of Educational Intervention Based on Social Cognitive Theory on Promoting Knowledge and usage of personal protective equipment in Workers Employed by Iran Aluminum Company.

Design

In this study, 188 employees of Iran Aluminum Company who are eligible to enter the study are selected. The participants were randomly divided into intervention and control groups and provided training for the intervention group.

Settings and conduct

Educational intervention takes place at the Iran Aluminum Company. The instrument of this study was a researcher-made questionnaire based on the constructs of the Social Cognitive Theory Model (S C T), which included questions about demographic information, questions about knowledge, questions about the self-made questionnaire, and questions about performance that are completed by both intervention and comparison groups.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Worker satisfaction to participate in the study and Having fixed work in the company. Exclusion criteria: The presence of occupational disease during the study; The inability of workers to participate in the study; The lack of interest of workers in participating in the study

Intervention groups

The present study is a semi-experimental intervention with two intervention and control groups. After filling in the questionnaire by individuals, the interventions are conducted through verbal training within 1 month and 4 training sessions as group training. Six months after the completion of the training for the intervention group, the questionnaires will be filled again by the intervention and

control groups and the results will be compared.

Main outcome variables

After the intervention, the awareness of the workers in the intervention group about the use of personal protective equipment and how to use those devices has changed.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20130213012460N17**

Registration date: **2019-03-14, 1397/12/23**

Registration timing: **retrospective**

Last update: **2019-03-14, 1397/12/23**

Update count: **0**

Registration date

2019-03-14, 1397/12/23

Registrant information

Name

Roya Sadedgi

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

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Email address

sadeghir@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-01-21, 1396/11/01

Expected recruitment end date

2018-08-23, 1397/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Educational Intervention Based on Social Cognitive Theory on Promoting Knowledge and usage of personal protective equipment among Aluminum factory workers

Public title

The effect of Educational Intervention on Promoting Knowledge and usage of personal protective equipment among Aluminum factory workers

Purpose

Prevention

Inclusion/Exclusion criteria**Inclusion criteria:**

Worker satisfaction to participate in the study Having fixed work at the company

Exclusion criteria:

The presence of occupational disease during the study
The inability of workers to participate in the study
The lack of interest of workers in participating in the study

Age

No age limit

Gender

Male

Phase

N/A

Groups that have been masked*No information***Sample size**Target sample size: **188****Randomization (investigator's opinion)**

Randomized

Randomization description

In this study sampling method is simple random method. In this way, a list of 2700 workers will be provided and 188 employees will be randomly selected from this list, and then 188 people will be randomly assigned to two groups of 94 (intervention and control). Blinding is not done in this study.

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, School of Public Health, Tehran University of Medical Sciences

Street address

Poursina St., Keshavarz Blvd, School of Public Health, Tehran University of Medical Sciences

City

Tehran

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Tehran

Postal code

1417653761

Approval date

2017-12-02, 1396/09/11

Ethics committee reference number

IR.TUMS.SPH.REC.1396.4136

Health conditions studied**1****Description of health condition studied**

Usage of personal protective equipment

ICD-10 code

S00-T98

ICD-10 code description

Injury, poisoning and certain other consequences of external causes

Primary outcomes**1****Description**

Awareness of personal protective equipment

Timepoint

Before and six months after the intervention

Method of measurement

Questionnaire

2**Description**

Usage of personal protective equipment

Timepoint

Before and six months after the intervention

Method of measurement

Questionnaire

Secondary outcomes**1****Description**

Social Cognitive Theory Model

Timepoint

Before and six months after the intervention
Method of measurement
Questionnaire

Intervention groups

1

Description

Intervention group: In these meetings, which will be held as a group training (Using lectures, questions and answers, movie show and role play) for workers of the aluminum company of Iran and held at meetings 45-60 minutes.

Category

Behavior

2

Description

Control group: In the control group, questionnaire will be asked to complete. There was no intervention for control group.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Iran Aluminum company

Full name of responsible person

Mehdi Saghafi

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mohammad Ali Sahraian

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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

Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Roya Sadeghi

Position

Associate Professor

Latest degree

Ph.D.

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

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

Data Dictionary

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