

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

19 Jun 2026

### The effect of eye movement desensitization and reprocessing therapy on cognitive failure in nurses working in COVID-19 wards

#### Protocol summary

##### Study aim

The aim of this study was to determine the effect of eye movement desensitization and reprocessing (EMDR) therapy on cognitive failure in nurses.

##### Design

The present study was a quasi-experimental study that will be performed in 1401 in Shahid Jalil Hospital in Yasuj. The samples consisted of 90 nurses who were selected by purposive sampling method and then randomly divided into two parallel experimental and comparison groups by block random allocation

##### Settings and conduct

The present study was a quasi-experimental study that will be conducted in 1401 in Shahid Jalil Hospital in Yasuj. Cognitive, was used.

##### Participants/Inclusion and exclusion criteria

The inclusion criteria consisted of working in a COVID-19 ward for at least six months, complete mental and physical health based on personal history, no visual failure, no history of mental illness, no history of neuropsychological medications, and no addiction. The exclusion criteria consisted of participant's unwillingness to continue and failure to fully cooperate with the researcher.

##### Intervention groups

Intervention group: They will receive the intervention in four individual sessions of 90-45 minutes every other day in a pre-determined room of the hospital. EMDR will be performed in 8 steps by an EMDR therapist who has been trained in EMDR therapy for at least 7 years. In the control group, no intervention will be performed and only the questionnaires will be completed

##### Main outcome variables

Cognitive impairment that will be measured by a self-report cognitive impairment questionnaire. Cognitive impairment causes people to not remember topics such as history, days of the week, and patient names. Individual characteristics can be effective in the development of cognitive impairment.

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20190822044581N4**

Registration date: **2022-03-16, 1400/12/25**

Registration timing: **prospective**

Last update: **2022-03-16, 1400/12/25**

Update count: **0**

##### Registration date

2022-03-16, 1400/12/25

##### Registrant information

##### Name

Naeem Abdi

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 74 3222 3853

##### Email address

naiem.abdi@yums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2022-04-21, 1401/02/01

##### Expected recruitment end date

2022-09-23, 1401/07/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of eye movement desensitization and reprocessing therapy on cognitive failure in nurses working in COVID-19 wards

#### Public title

The effect of eye movement desensitization and reprocessing therapy on cognitive failure in nurses working in COVID-19 wards

#### Purpose

Treatment

#### Inclusion/Exclusion criteria

##### Inclusion criteria:

working in a COVID-19 ward for at least six months complete mental and physical health based on personal history no history of neuropsychological medications no addiction.

##### Exclusion criteria:

consisted of participant's unwillingness to continue failure to fully cooperate with the researcher

#### Age

From **22 years** old

#### Gender

Both

#### Phase

N/A

#### Groups that have been masked

*No information*

#### Sample size

Target sample size: **90**

#### Randomization (investigator's opinion)

Randomized

#### Randomization description

Randomization method: Block randomization  
Randomization tool: <https://www.sealedenvelope.com/>  
How to make a random sequence: To perform this method, the number of intervention groups (two groups A and B), the volume of each block (6 in each block) and the number of sample size (90 Nurses) were entered into the website. The site then provided a list of 15 blocks, each contains 6 patients. In this study, we use 6 patients in each block and the website randomizes and numbers the blocks. Allocation Concealment Method: Sealed Envelopes

#### 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

Yasuj University of Medical Sciences

#### Street address

Yasuj - Shahid Motahari Boulevard - Yasuj University of Medical Sciences

#### City

Yasuj

#### Province

Kohgiluyeh-va-Boyerahmad

#### Postal code

7591994799

#### Approval date

2021-03-17, 1399/12/27

#### Ethics committee reference number

IR.YUMS.REC.1400.011

### Health conditions studied

#### 1

##### Description of health condition studied

cognitive failure

##### ICD-10 code

##### ICD-10 code description

### Primary outcomes

#### 1

##### Description

Cognitive impairment: It is related to dimensions, distraction, memory problems, inadvertent mistakes and not remembering the names that the person will eventually receive a score from zero to 100 based on the scale of cognitive impairment.

##### Timepoint

Before, after and three months after the intervention

##### Method of measurement

data was collected using the Cognitive Failure Questionnaire (CFQ). The questionnaires were completed by the participants before, immediately after and three months after the intervention. CFQ has 25 items about the extent to which they experience mistakes and cognitive errors in everyday work shifts. this Questionnaire answered on a five-point Likert scale scoring from 0 (never) to 4 (very often). The scores pertain to domains of distractibility, memory, blunders and names, and one can receive a total score of 0-100. Higher CFQ scores indicate greater cognitive failures

### Secondary outcomes

empty

### Intervention groups

#### 1

##### Description

Intervention group: Intervention group: After obtaining the necessary permits from the ethics committee and the hospital and obtaining informed and written consent from the nurses, a cognitive deficit scale questionnaire

will be used to collect information. The questionnaire is completed before, after and three months after the intervention of the participants. The Cognitive Failures Questionnaire consists of 25 questions, the answer to which varies from 5 (very low) to 4 (very high) in a 5-point Likert. The overall scoring of this tool is related to dimensions, distraction, memory problems, inadvertent mistakes and not remembering the names that the person will eventually receive a score from zero to 100. The intervention in the experimental group will be performed in four sessions every other day for each person, separately in the pre-prepared room in the hospital. Meeting times will vary from 45 to 90 minutes. The EMDR method consists of eight steps and will be performed according to the standard EMDR protocol

#### Category

Treatment - Other

## 2

#### Description

Control group: Control group: In this group, no intervention will be taken from the creative level and only their demographic information will be collected.

#### Category

Treatment - Other

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Shahid Jalil Hospital

##### Full name of responsible person

Mohammad Behnamoghdam

##### Street address

Qarni Boulevard, Dolatabad Martyrs Educational and Medical Center and Dr. Ghorban Ali Jalil Martyr Hospital, Yasuj,

##### City

Yasuj

##### Province

Kohgiluyeh-va-Boyer-Ahmad

##### Postal code

7591994799

##### Phone

+98 74 3333 7001

##### Email

jalilhospital@yums.ac.ir

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Yasuj University of Medical Sciences

##### Full name of responsible person

Mohammad Behnamoghdam

##### Street address

Yasuj - Shahid Motahari Boulevard - Yasuj University

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oryad.hosseini@yums.ac.ir

#### Grant name

#### Grant code / Reference number

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

Yes

#### Title of funding source

Yasuj 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

Yasuj University of Medical Sciences

##### Full name of responsible person

Mohammad Behnamoghdam

##### Position

Faculty member

##### Latest degree

Master

##### Other areas of specialty/work

Nursery

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mbehnam1363@gmail.com

## Person responsible for scientific inquiries

#### Contact

##### Name of organization / entity

Yasouj University of Medical Sciences

**Full name of responsible person**

Mohammad Behnammoghadam

**Position**

Faculty member

**Latest degree**

Master

**Other areas of specialty/work**

Nursery

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**Name of organization / entity**

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**Position**

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**Latest degree**

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**Email**

mbehnam1363@gmail.com

**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**

Not applicable

**Informed Consent Form**

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

**Clinical Study Report**

Not applicable

**Analytic Code**

Not applicable

**Data Dictionary**

Not applicable