

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Aug 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		Yasuj University of Medical Sciences	
Public title		Street address	
The effect of eye movement desensitization and reprocessing therapy on cognitive failure in nurses working in COVID-19 wards		Yasuj - Shahid Motahari Boulevard - Yasuj University of Medical Sciences	
Purpose		City	
Treatment		Yasuj	
Inclusion/Exclusion criteria		Province	
Inclusion criteria:		Kohgiluyeh-va-Boyer-Ahmad	
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.		Postal code	
Exclusion criteria:		7591994799	
consisted of participant's unwillingness to continue failure to fully cooperate with the researcher		Approval date	
Age		2021-03-17, 1399/12/27	
From 22 years old		Ethics committee reference number	
Gender		IR.YUMS.REC.1400.011	
Both		Health conditions studied	
Phase		1	
N/A		Description of health condition studied	
Groups that have been masked		cognitive failure	
No information		ICD-10 code	
Sample size		ICD-10 code description	
Target sample size: 90		Primary outcomes	
Randomization (investigator's opinion)		1	
Randomized		Description	
Randomization 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.	
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		Timepoint	
Blinding (investigator's opinion)		Before, after and three months after the intervention	
Not blinded		Method of measurement	
Blinding description		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	
Placebo		Secondary outcomes	
Not used		empty	
Assignment		Intervention groups	
Parallel		1	
Other design features		Description	
Secondary Ids		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	
empty			
Ethics committees			
1			
Ethics committee			
Name of ethics committee			

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 Behnammoghadam

Street address

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

City

Yasuj

Province

Kohgiluyeh-va-Boyerahmad

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7591994799

Phone

+98 74 3333 7001

Email

jalilhospital@yums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Yasouj University of Medical Sciences

Full name of responsible person

Mohammad Behnammoghadam

Street address

Yasuj - Shahid Motahari Boulevard - Yasuj University

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oryad.hossein@yums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Yasouj 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

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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Yasuj - Shahid Motahari Boulevard - Yasuj University of Medical Sciences

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Position

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Latest degree

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Person responsible for updating data

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Name of organization / entity

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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

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